

Figure 1

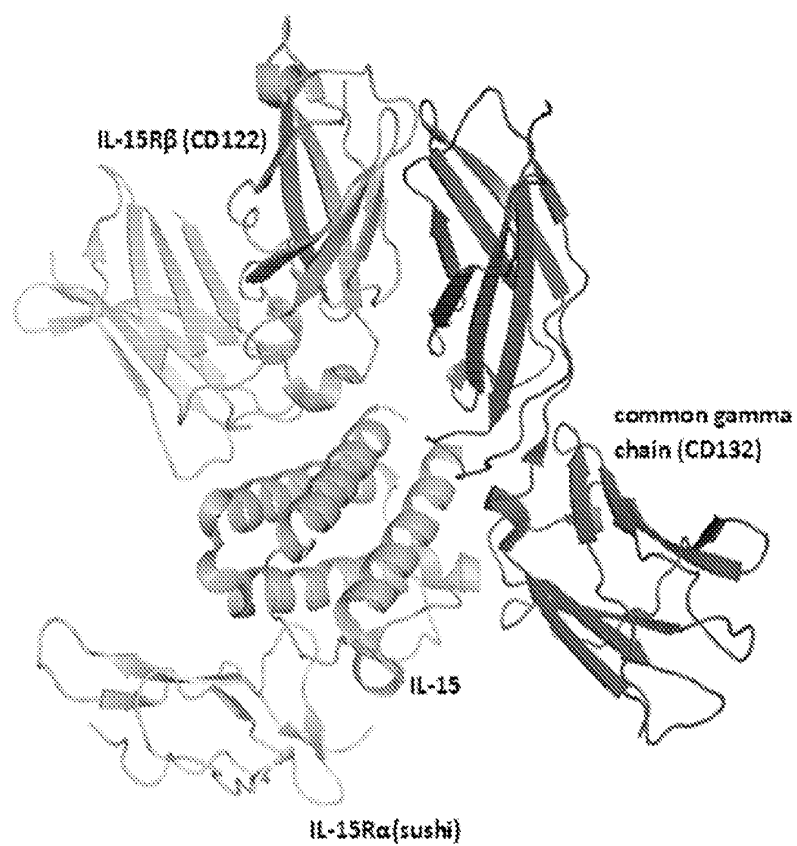


Figure 2A**Human IL-15 precursor sequence (SEQ ID NO: 5)**

>sp|P40933
MRISKPHLRISIQCYLCLLLNSHFLTEAGIHVFILGCFSGAGLPKTEANWVNVI SDLKKI EDLIQSMHIDATLYT
ESDVHP SCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLSSNGNVTESGCKECEELEEKNIKEFLQS
FVHIVQMFINITS

Human IL-15 mature form sequence (SEQ ID NO: 6)

>sp|P40933|49-162
NWVNVI SDLKKI EDLIQSMHIDATLYTESDVHP SCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSL
SNGNVTESGCKECEELEEKNIKEFLQS FVHIVQMFINITS

Human IL-15R α sequence (SEQ ID NO: 7)

>sp|Q13261
MAPRRARGCRTLGLPALLLLLLLRPPATRGITCPPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSSLTEC
VLNKATNVAHWTTPSLKCIRD PALVHQRPAPPSTVT TAGVTPQPELSPSGKEPAASSPSSNNTAATTAAIVPGS
QLMP SKSPSTGTTEISSHESHGTPSQTTAKNWELTASASHQPPGVYPQGHS DTTVAISTSTVLLCGLSAVSLLA
CYLKS RQTPPLASVEMEAMEALPVTWGTSSRDEDLENC SHHL

Human IL-15R α , extracellular domain (SEQ ID NO: 8)

>sp|Q13261|31-205
ITCPPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD PALVHQRP
APPSTVT TAGVTPQPELSPSGKEPAASSPSSNNTAATTAAIVPGSQLMP SKSPSTGTTEISSHESHGTPSQTTA
KNWELTASASHQPPGVYPQGHS DTT

Human IL-15R α , sushi domain (SEQ ID NO: 9)

>sp|Q13261|31-95
ITCPPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

Human IL-15R β sequence (SEQ ID NO: 10)

>sp|P14784
MAAPALSWRLPLLI LLLPLATSWASAAVNGTSQFTCFYNSRANISCVWSQD GALQDTS CQVHAWPDRRRWNQTCE
LLPV SQASWACNLILGAPDSQKLTTVDIVTLRVLCREGVRWRVMAIQDFKPFENLR LMAPISLQVVHVETHRCNI
SWEISQASHYFERHLEFEARTLSPGHTWEEAPLLTLKQKQEWICLETLPDTQYEFQVRVKPLQGEFTTWS PWSQ
PLAFRTKPAALGKDTIPWLGHL LVGLSGAFGIILVYLLINCRNTGPWLKKVLKCNTPDP SKFFS QLSSEHGGDV
QKWLSSPFPSSSFSPGGLAPEISPLEVLERDKVTQLLLQQDKVPEPASLSSNHSLSCTFNQGYFF FHL PDAL E
EACQVYFTYDPYSEEDPDEGVAGAPTGSSPQLQPLSGEDDAYCTFP SRD LLLFSPSLGGPSP PSTAPGGSGA
GEERMPPSLQERVPRDWDPPQLGPPTPGVPDLVDFQPPPELV LREAGEEVPDAGPREGVSPFWSRPPPGQGEFRAL
NARLP LNTDAYLSLQELQGDPTH LV

Human IL-15R β , extracellular domain (SEQ ID NO: 11)

>sp|P14784|27-240
AVNGTSQFTCFYNSRANISCVWSQD GALQDTS CQVHAWPDRRRWNQTCELLPV SQASWACNLILGAPDSQKLTTV
DIVTLRVLCREGVRWRVMAIQDFKPFENLR LMAPISLQVVHVETHRCNI SWEISQASHYFERHLEFEARTLSPGH
TWEEAPLLTLKQKQEWICLETLPDTQYEFQVRVKPLQGEFTTWS PWSQPLAFRTKPAALGKDT

Figure 2B**Human common gamma chain sequence (SEQ ID NO: 12)**

```
>sp|P31785
MLKPSLPFTSLLFLQLPLLGVLNNTILTPNGNEDTTADFFLTMTPTDSLVSSTLPLPEVQCFVFNVEYMNCTWN
SSSEPQPTNLTLYHYKNSDNDKVQKCSHYLFSEEITSGCQLQKKEIHLYQTFVVQLQDPREPRRQATQMLKLQN
LVI PWAPENLT LHKLSQSLELNWNNRFLNHCLEHLVQYRTDWDHSWTEQSVDYRHKFSLPSVDGQKRYTFRVRS
RFPNPLCGSAQHSEWSHP IHWSNTSKENPFLFALEAVVISVGSMGLII SLLCVYFWLERTMPRIPTLKNLEDLV
TEYHGNFSAWSGVSKGLAESLQPDYSERLCLVSEI PPKGGALGEGPGASPCNQHSPLYWAPP CYTLKPET
```

Human common gamma chain, extracellular domain (SEQ ID NO: 13)

```
>sp|P31785|23-262
LNTTILTPNGNEDTTADFFLTMTPTDSLVSSTLPLPEVQCFVFNVEYMNCTWNSSEPQPTNLTLYHYKNSDND
KVQKCSHYLFSEEITSGCQLQKKEIHLYQTFVVQLQDPREPRRQATQMLKLQNLVIPWAPENLT LHKLSQSLEL
NWNRRFLNHCLEHLVQYRTDWDHSWTEQSVDYRHKFSLPSVDGQKRYTFRVRSRFPNPLCGSAQHSEWSHP IHWG
SNTSKENPFLFALEA
```

Figure 3A

Monomer 1	Monomer 2
F405A	T394F
S364D	Y349K
S364E	L368K
S364E	Y349K
S364F	K370G
S364H	Y349K
S364H	Y349T
S364Y	K370G
T411K	K370E
V397S/F405A	T394F
K370R/T411K	K370E/T411E
L351E/S364D	Y349K/L351K
L351E/S364E	Y349K/L351K
L351E/T366D	L351K/T366K
P395T/V397S/F405A	T394F
S364D/K370G	S364Y/K370R
S364D/T394F	Y349K/F405A
S364E/F405A	Y349K/T394F
S364E/F405S	Y349K/T394Y
S364E/T411E	Y349K/D401K
S364H/D401K	Y349T/T411E
S364H/F405A	Y349T/T394F
S364H/T394F	Y349T/F405A
Y349C/S364E	Y349K/S354C
L351E/S364D/F405A	Y349K/L351K/T394F
L351K/S364H/D401K	Y349T/L351E/T411E
S364E/T411E/F405A	Y349K/T394F/D401K
S364H/D401K/F405A	Y349T/T394F/T411E
S364H/F405A/T411E	Y349T/T394F/D401K

Figure 3B

Monomer 1	Monomer 2
K370E/T411D	T411K
L368E/K409E	L368K
Y349T/T394F/S354C	S364H/F405A/Y349C
T411E	D401K
T411E	D401R/T411R
Q347E/K360E	Q347R
L368E	S364K
L368E/K370S	S364K
L368E/K370T	S364K
L368E/D401R	S364K
L368E/D401N	S364K
L368E	E357S/S364K
L368E	S364K/K409E
L368E	S364K/K409V
L368D	S364K
L368D/K370S	S364K
L368D/K370S	S364K/E357L
L368D/K370S	S364K/E357Q
T411E/K360E/Q362E	D401K
K370S	S364K
L368E/K370S	S364K/E357Q
K370S	S364K/E357Q
T411E/K360D	D401K
T411E/K360E	D401K
T411E/Q362E	D401K
T411E/N390D	D401K
T411E	D401K/Q347K
T411E	D401K/Q347R
T411E/K360D/Q362E	D401K

Figure 3C

Monomer 1	Monomer 2
T411E/K360E/N390D	D401K
T411E/Q362E/N390D	D401K
T411E/Q347R	D401K/K360D
T411E/Q347R	D401K/K360E
T411E/K360	D401K/Q347K
T411E/K360D	D401K/Q347R
T411E/K360E	D401K/Q347K
T411E/K360E	D401K/Q347R
T411E/S364K	D401K/K370S
T411E/K370S	D401K/S364K
Q347E	E357Q
Q347E	E357Q/Q362K
K360D/Q362E	Q347R
K360D/Q362E	D401K
K360D/Q362E	Q347R/D401K
K360E/Q362E	Q347R
K360E/Q362E	D401K
K360E/Q362E	Q347R/D401K
Q362E/N390D	D401K
Q347E/K360D	D401N
K360D	Q347R/N390K
K360D	N390K/D401N
K360E	Y349H
K370S/Q347E	S364K
K370S/E357L	S364K
K370S/E357Q	S364K
K370S/Q347E/E357L	S364K
K370S/Q347E/E357Q	S364K

Figure 3D

Monomer 1	Monomer 2
L368D/K370S/Q347E	S364K
L368D/K370S/E357L	S364K
L368D/K370S/E357Q	S364K
L368D/K370S/Q347E/E357L	S364K
L368D/K370S/Q347E/E357Q	S364K
L368E/K370S/Q347E	S364K
L368E/K370S/E357L	S364K
L368E/K370S/E357Q	S364K
L368E/K370S/Q347E/E357L	S364K
L368E/K370S/Q347E/E357Q	S364K
L368D/K370T/Q347E	S364K
L368D/K370T/E357L	S364K
L368D/K370T/E357Q	S364K
L368D/K370T/Q347E/E357L	S364K
L368D/K370T/Q347E/E357Q	S364K
L368E/K370T/Q347E	S364K
L368E/K370T/E357L	S364K
L368E/K370T/E357Q	S364K
L368E/K370T/Q347E/E357L	S364K
L368E/K370T/Q347E/E357Q	S364K
T411E/Q362E	D401K/T411K
T411E/N390D	D401K/T411K
T411E/Q362E	D401R/T411R
T411E/N390D	D401R/T411R
Y407T	T366Y
F405A	T394W
T366Y/F405A	T394W/Y407T
Y407A	T366W
T366S/L368A/Y407V	T366W
T366S/L368A/Y407V/Y349C	T366W/S354C

Figure 3E

Monomer 1	Monomer 2
K392D/K409D	E356K/D399K
K370D/K392D/K409D	E356K/E357K/D399K
K247Q/R355Q/N384S/K392N/V397M/Q419E/K447_	P217R/P228R/N276K
K247Q/R355Q/N384S/K392N/V397M/Q419E/K447_	N276K
N384S/K392N/V397M/Q419E	N276K
D221E/P228E/L368E	D221R/P228R/K409R
C220E/P228E/L368E	C220R/E224R/P228R/K409R
F405L	K409R
T366I/K392M/T394W	F405A/Y407V
T366V/K409F	L351Y/Y407A
T366A/K392E/K409F/T411E	D399R/S400R/Y407A
L351K	L351E
K247Q/R355Q/Q419E/K447_	P217R/P228R/N276K
K247Q/R355Q/Q419E/K447_	N276K
K274Q/R355Q/N384S/K392N/V397M/Q419E/K447_	
Q295E/N384D/Q418E/N421D	
Q295E/Q418E/N421D	
P217R/P228R/N276K	
N276K	
E269Q/E272Q/E283Q/E357Q	
E269Q/E272Q/E283Q	
E269Q/E272Q	
E269Q/E283Q	
E272Q/E283Q	
E269Q	

Figure 4

<u>Variant constant region</u>	<u>Substitutions</u>
pl_ISO(-)-Fc only	K274Q/R355Q/N384S/K392N/V397M/Q419E/K447_
pl_(-)_isosteric A-Fc only	Q295E/N384D/Q418E/N421D
pl_(-)_isosteric_B-Fc only	Q295E/Q418E/N421D
pl_ISO(+RR)-Fc only	P217R/P228R/N276K
pl_ISO(+)-Fc only	N276K
pl_(+)_isosteric_A	E269Q/E272Q/E283Q/E357Q
pl_(+)_isosteric_B	E269Q/E272Q/E283Q
pl_(+)_isosteric_E269Q/E272Q	E269Q/E272Q
pl_(+)_isosteric_E269Q/E283Q	E269Q/E283Q
pl_(+)_isosteric_E272Q/E283Q	E272Q/E283Q
pl_(+)_isosteric_E269Q	E269Q

Figure 5**Ablation Variants**

G236R
S239G
S239K
S239Q
S239R
V266D
S267K
S267R
H268K
E269R
299R
299K
K322A
A327G
A327L
A327N
A327Q
L328E
P329K
A330L
A330S/P331S
I332K
I332R
V266D/A327Q
V266D/P329K
S267R/A327Q
S267R/P329K
G236R/L328R
E233P/L234V/L235A/G236_/S239K
E233P/L234V/L235A/G236_/S267K
E233P/L234V/L235A/G236_/S239K/A327G
E233P/L234V/L235A/G236_/S267K/A327G
E233P/L234V/L235A/G236_
S239K/S267K
267K/P329K

Figures 6A-6E

Figure s 6A	
IL-15-Fc monomer (-)	IL-15Rα(sushi)-Fc monomer (+)
C220S	C220S
Heterodimer pl variants L368D/K370S	Heterodimer pl variants S364K/E357Q
Isosteric pl substitutions Q295E/N384D/Q418E/N421D	
FcKO	FcKO
E233P/L234V/L235A/G236_/S267K	E233P/L234V/L235A/G236_/S267K
$\pm$ M428L/N434S	$\pm$ M428L/N434S

Figure s 6B	
sIL-15/Rα-Fc monomer (-)	empty-Fc monomer (+)
C220S	C220S
Heterodimer pl variants L368D/K370S	Heterodimer pl variants S364K/E357Q
Isosteric pl substitutions Q295E/N384D/Q418E/N421D	
FcKO	FcKO
E233P/L234V/L235A/G236_/S267K	E233P/L234V/L235A/G236_/S267K
$\pm$ M428L/N434S	$\pm$ M428L/N434S

Figure s 6C	
empty-Fc monomer (-)	IL-15Rα(sushi)-Fc monomer (+)
C220S	C220S
Heterodimer pl variants L368D/K370S	Heterodimer pl variants S364K/E357Q
Isosteric pl substitutions Q295E/N384D/Q418E/N421D	
FcKO	FcKO
E233P/L234V/L235A/G236_/S267K	E233P/L234V/L235A/G236_/S267K
$\pm$ M428L/N434S	$\pm$ M428L/N434S

Figure s 6D	
IL-15Rα(sushi)-Fc Chain 1	IL-15Rα(sushi)-Fc Chain 2
C220S	C220S
FcKO	FcKO
E233P/L234V/L235A/G236_/S267K	E233P/L234V/L235A/G236_/S267K
$\pm$ M428L/N434S	$\pm$ M428L/N434S

Figure s 6E	
Fc-IL-15Rα(sushi) (-)	empty-Fc monomer (+)
C220S	C220S
Heterodimer pl variants L368D/K370S	Heterodimer pl variants S364K/E357Q
	Isosteric pl substitutions P217R/P228R/N276K
FcKO	FcKO
E233P/L234V/L235A/G236_/S267K	E233P/L234V/L235A/G236_/S267K
$\pm$ M428L/N434S	$\pm$ M428L/N434S

Figure 7

<u>Name</u>	<u>Sequence</u>	<u>SEQ ID NO:</u>
(GGGGS) ₁ or GGGGS	GGGGS	14
(GGGGS) ₂	GGGGSGGGGS	15
(GGGGS) ₃	GGGGSGGGSGGGGS	16
(GGGGS) ₄	GGGSGGGSGGGSGGGGS	17
(GGGGS) ₅	GGGSGGGSGGGSGGGSGGGGS	18
(GGGGS) ₆	GGGSGGGSGGGSGGGSGGGSGGGGS	19
(GGGGS) ₇	GGGSGGGSGGGSGGGSGGGSGGGSGGGGS	20
30AA-linker	DPALVHQRPAAPPGGGSGGGSGGGSGGG	21
(GKPGS) ₁ or GKPGS	GKPGS	22
(GKPGS) ₅	GKPGSGKPGSGKPGSGKPGSGKPGS	23
(GKPGS) ₆	GKPGSGKPGSGKPGSGKPGSGKPGSGKPGS	24
(GGGES) ₁ or GGGES	GGGES	25

Figure 8A

IL-15/R α -Fc Backbone 1**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 26)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREQMTKNQVKLTCLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 27)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGFYPYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 2**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 28)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVKLTCLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 29)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGFYPYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 3**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 30)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVKLTCLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 31)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCEVSGFYPYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

Figure 8B

IL-15/R α -Fc Backbone 4**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 32)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSESGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 33)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTENEVSLTCLVKGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLEVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 5**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 34)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSRDQLTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 35)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSRDELTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 6**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 36)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREQMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 37)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

Figure 8C

IL-15/R α -Fc Backbone 7**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 38)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYSSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREQMTKNQVQLTCLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 39)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYSSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGFPYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 8**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 40)**

ESKYGPCCPPCPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQEDPEVQFNWYVDGVEVHN
AKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTLPPS
QEEMTKNQVQLTCLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKSRWQEGNV
FSCSVMEALHNHYTQKSLSLGLGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 41)

ESKYGPCCPPCPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQEDPEVQFNWYVDGVEVHN
AKTKPREEEFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTLPPS
QEEMTKNQVSLTCDVSGFPYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSRLTVDKSRWEEGDV
FSCSVMEALHNHYTQKSLSLGLGK

IL-15/R α -Fc Backbone 9**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 42)**

ERKCCVECPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVQFNWYVDGVEVHNA
KTKPREEQFNSTFRVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSR
EQMTKNQVQLTCLVKGFPYPSDIAVEWESNGQPENNYKTTTPMLDSDGSFFLYSKLTVDKSRWQQGNVF
SCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 43)

ERKCCVECPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVQFNWYVDGVEVHNA
KTKPREEEFNSTFRVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSR
EEMTKNQVSLTCDVSGFPYPSDIAVEWESDGPENNYKTTTPMLDSDGSFFLYSKLTVDKSRWEQGDVF
SCSVMEALHNHYTQKSLSLSPGK

Figure 8D

IL-15/R α -Fc Backbone 10**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 44)**

ERKCCVECPPCAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVQFNWYVDGVEVHNA
KTKPREEQFNSTFRVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYITLPPSR
EQMTKNQVKLTCLVKGFPYPSDIAVEWESNGQPENNYKTPPMLDSGSEFFLYSKLTVDKSRWQQGNV
SCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 45)

ERKCCVECPPCAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVQFNWYVDGVEVHNA
KTKPREEEFNSTFRVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYITLPPSR
EEMTKNQVSLTCDVSGFYPYPSDIAVEWESDQGPENNYKTPPMLDSGSEFFLYSKLTVDKSRWEQGDVF
SCSVMEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 11**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 46)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYITLP
PSREEMTKNQVSLTCLVKGFPYPSDIAVEWESNGQPENNYKTPPVLDSDGSEFFLYSKLTVDKSRWQQG
NVFSCSVLHEALHSHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 47)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYITLP
PSREEMTKNQVSLTCDVSGFYPYPSDIAVEWESDQGPENNYKTPPVLDSDGSEFFLYSKLTVDKSRWEQ
GDVFSCSVLHEALHSHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 12**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 48)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYITLP
PSREEMTKNQVSLTCLVKGFPYPSDIAVEWESNGQPENNYKTPPVLDSDGSEFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 49)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYITLP
PSREEMTKNQVSLTCLVKGFPYPSDIAVEWESNGQPENNYKTPPVLDSDGSEFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

Figure 8E

IL-15/R α -Fc Backbone 13**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 50)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 51)

ERKSSDKTHTCPRCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFKWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREQMTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

FIGURE 9A

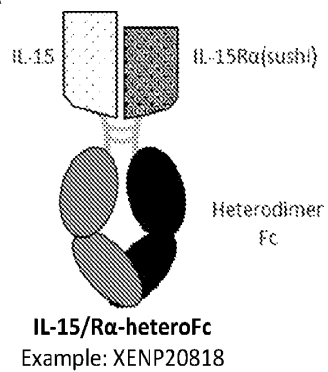


FIGURE 9B

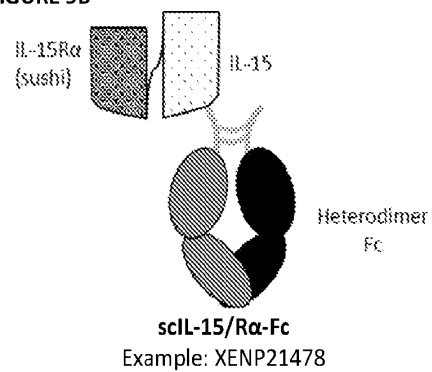


FIGURE 9C

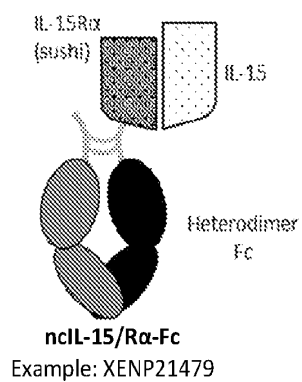


FIGURE 9D

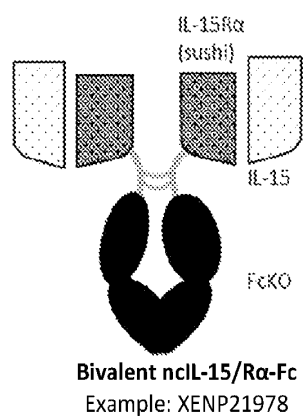


FIGURE 9E

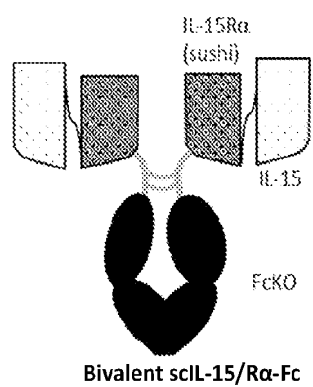


FIGURE 9F

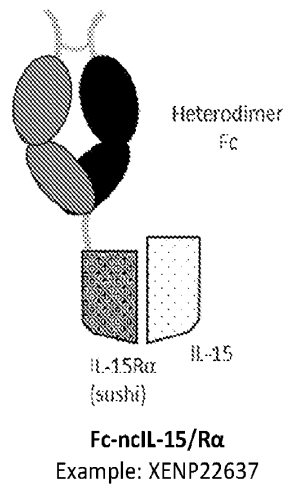


FIGURE 9G

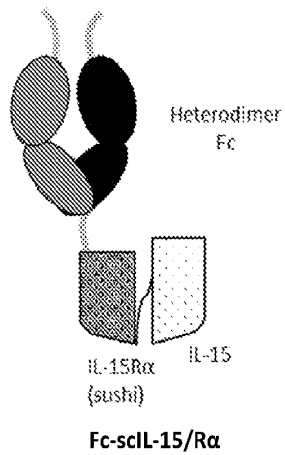


Figure 10

>XENP20818 – human IL15-(GGGGS)₁ x human IL15Rα(Sushi)-(GGGGS)₁ Fc heterodimer**Chain 1 - human_IL15_(GGGGS)₁_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (15902) (SEQ ID NOS 52-54)**

NWVNVI SDLKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHI VQMFINTS/ GGGGS/ EPKSSDKTHTCPCPAPPVAGPSVFLFPP
 KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
 PVLDS DGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)_(GGGGS)₁_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908) (SEQ ID NOS 55-57)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
 SSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVCLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

>XENP21475 – human IL15 x human IL15Rα(Sushi) Fc heterodimer**Chain 1 - human_IL15-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (16479) (SEQ ID NOS 58-60)**

NWVNVI SDLKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHI VQMFINTS/ EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTPVLDS D
 GSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (16481) (SEQ ID NOS 61-63)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ EPKSSDKTH
 TPCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVCLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

Figure 11

>XENP21478 – human IL15R α (Sushi)-(GGGGS)₆-human IL15(single-chain) Fc heterodimer

Chain 1 - human_IL15R α (sushi)_(GGGGS)₆-human_IL15-Fc(216)_IgG1_pl(-

)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (16478) (SEQ ID NOS 64-67)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/ GGGSGGGG
SGGGSGGGSGGGSGGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLE
SGDASIHDTVENLIILANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPP
CPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVS
VLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAV
EWESDGGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGVFSCSVMHEALHNHYTQKSLSLSPGK

Chain 2 - empty-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (8924) (SEQ ID NO: 68)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLSLSPGK

Figure 12A

>XENP21479 – empty-Fc-IL15(non-covalent)-human IL15R α (Sushi) Fc heterodimer**Chain 1 - human_IL15_no_tag (16484) (SEQ ID NO: 69)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 70)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVFS CSVMHEALHNHYTQKSLSLSPGK

Chain 3 - human_IL15R α (Sushi)-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (16481) (SEQ ID NOS 71-73)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

>XENP022366 – empty-Fc-IL15(non-covalent)-human IL15R α (sushi) (GGGGS)1 Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q**Chain 1 - human_IL15_no_tag (16484) (SEQ ID NO: 74)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 75)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVFS CSVMHEALHNHYTQKSLSLSPGK

Chain 3 - human_IL15R α (Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908) (SEQ ID NOS 76-78)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSPDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLS
PGK

Figure 12B

>XENP024348 IL15(non-covalent)-human_IL15Ra(Sushi)_empty-Fc_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 – IL15 WT (SEQ ID NO: 79)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 – human_IL15Ra(Sushi)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 80-82)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCI R/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEGDVFSCVMHEALHNHYTQKSLSLSPGK

Chain 3 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 83)

EPKSSDKTHITCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCVMHEALHNHYTQKSLSL
SPGK

Figure 13

>XENP021978 – human_IL15(non-covalent)-human_IL15Ra(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K

Chain 1 - human_IL15Ra(Sushi)-Fc(216)_IgG1_C220S/PVA_/S267K (17023) (SEQ ID NOS 84-86)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVHLQDNLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15_no_tag (16484) (SEQ ID NO: 87)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQS FVHIVQMFINTS

Figure 14

human IL15Ra(sushi)(single-chain)-human IL15 Fc(216) IgG1 C220S/PVA /S267K (SEQ ID NOS 88-91)

ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/NWV
NVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHD TVENLII LANNLS SNG
NVTESGCKECEELEEKNIKEFLQS FVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMIS
RTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALP
APIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSF
FLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGK

Figure 15

>XENP022637 – empty-Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S_(GGGGS)2_IL15Ra(Sushi)_IL15(non-
covalent)_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q

Chain 1 - empty- Figure 15

Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S_(GGGGS)2_IL15Ra(Sushi) (17603) (SEQ ID NOS 92-94)

EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEEQGDVFCFSVMHEALHNHYTQKSLSL
SPGK/GGGSGGGGS/ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWT
TPSLKCIR

Chain 2 - empty-Fc(216)_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q (8927) (SEQ ID NO: 95)

ERKSSDKTHTCPRCAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFKWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSL
SPGK

Chain 3 - human_IL15_no_tag (16484) (SEQ ID NO: 96)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Figure 16

empty-Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S_(GGGGS)2_IL15Ra(Sushi)_IL15(single-
chain)_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q

Chain 1 - empty-Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S_(GGGGS)2_IL15Ra(Sushi)_IL15(single-chain) (SEQ ID NOS
97-100)
EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSTDAIEWESDGGPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWEEQGDVFSCVMHEALHNHYTQKSLS
LSPGK/GGGSGGGGS/ITCPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWT
TPSLKCIR/GGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVLSLESGDASIH
DTVENLILANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q (8927) (SEQ ID NO: 101)
ERKSSDKTHTCPRCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFKWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFYPSTDAIEWESNGPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCVMHEALHNHYTQKSLS
LSPGK

Figure 17A

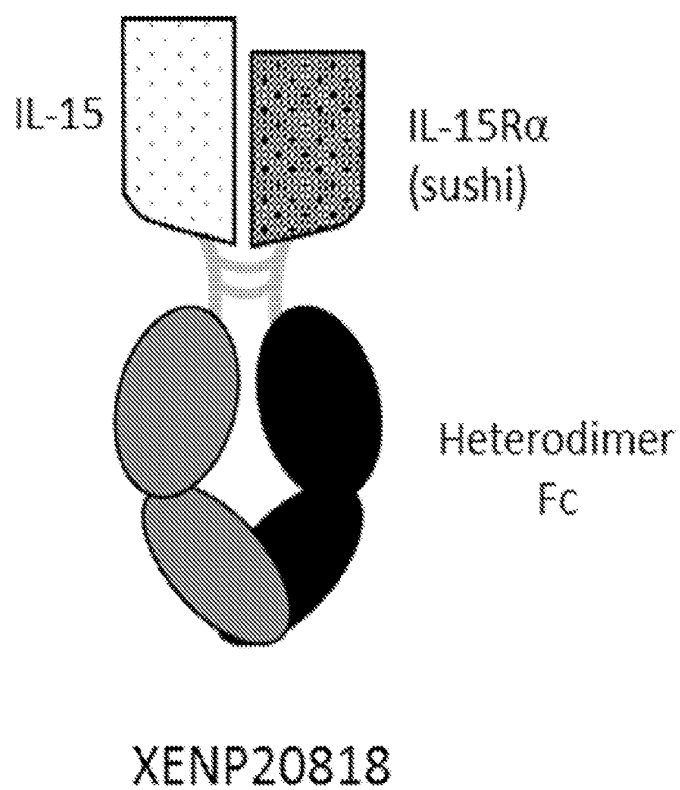
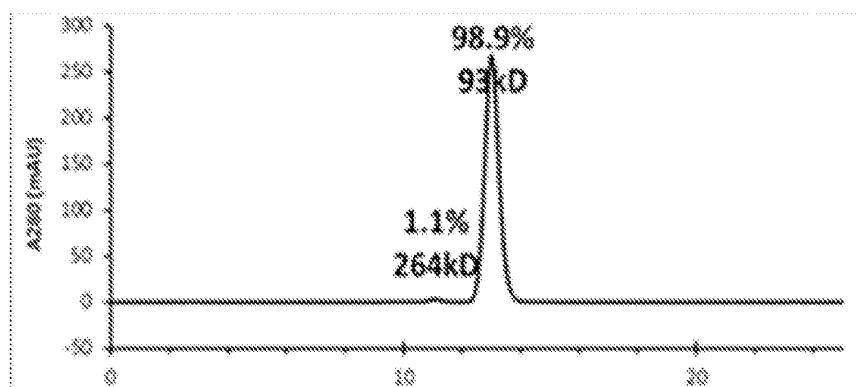


Figure 17B



pI(MW) = 6.41 (72.7 kDa)
Protein A yield = 25.7 mg/L

Figure 17C

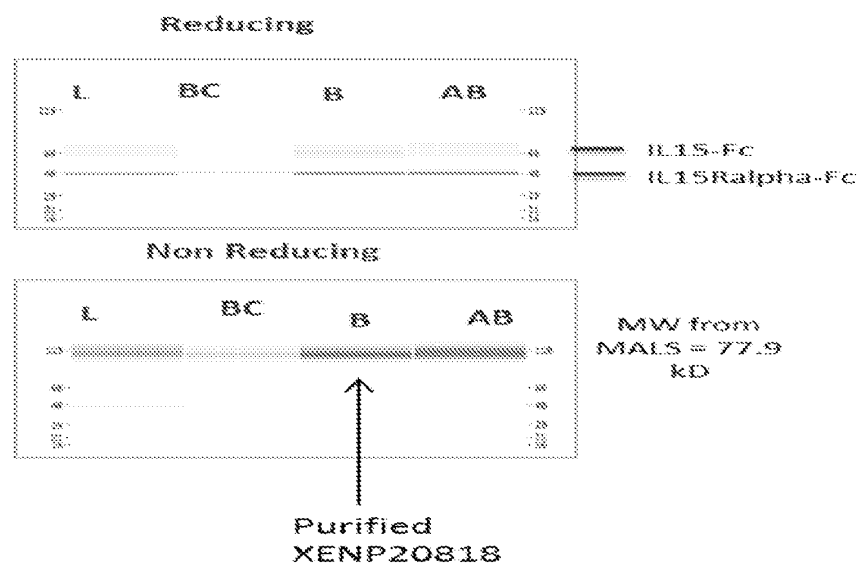
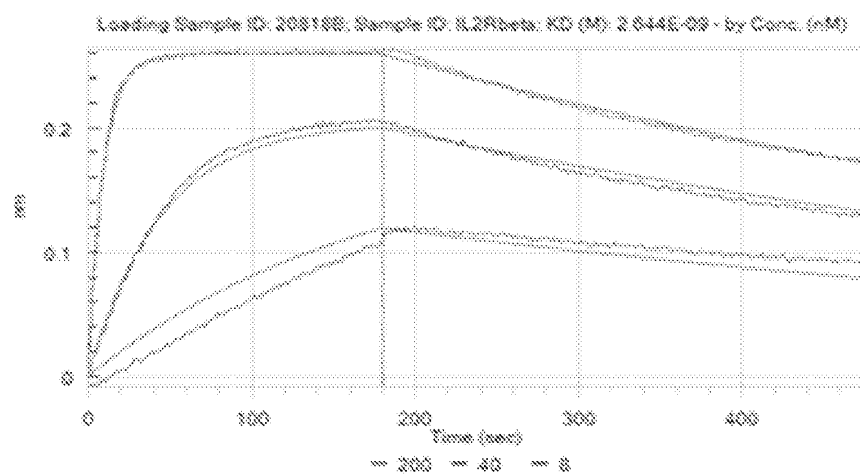


Figure 17D



Octet Red 96 – AHC capture of XENP20818;
 dip in 200 nM, 40 nM, or 8 nM IL2-R β (R&D
 systems); KD ~ 3 nM

Figure 17E

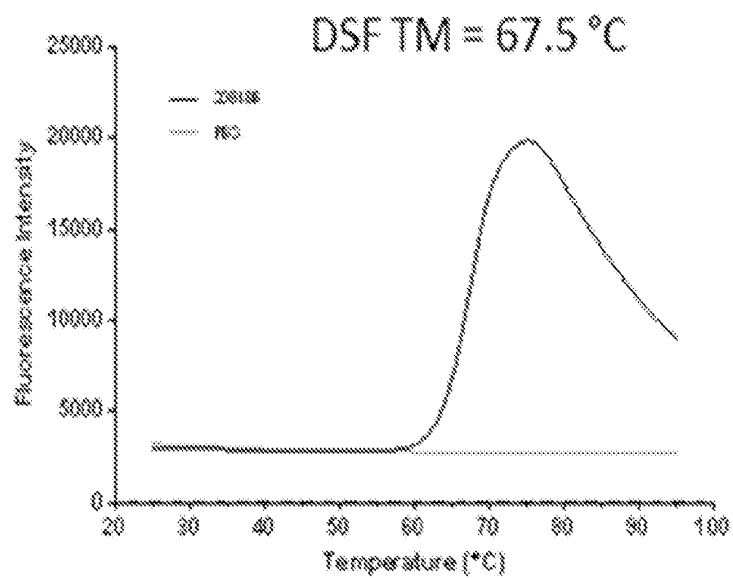


Figure 18A

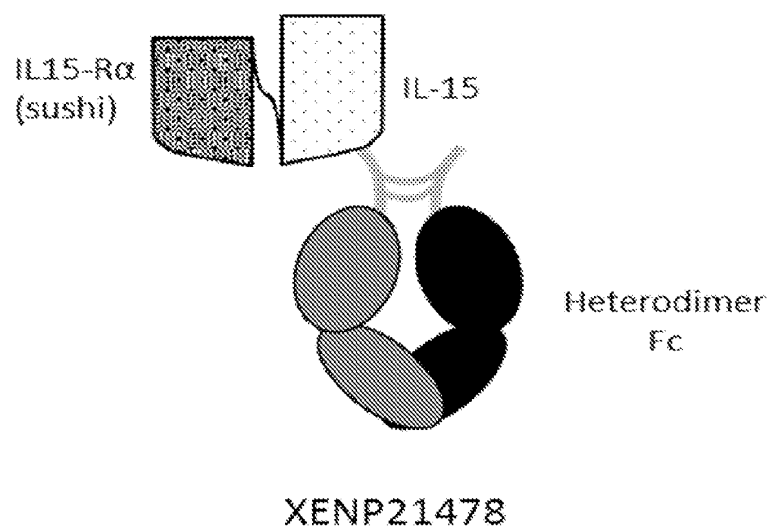
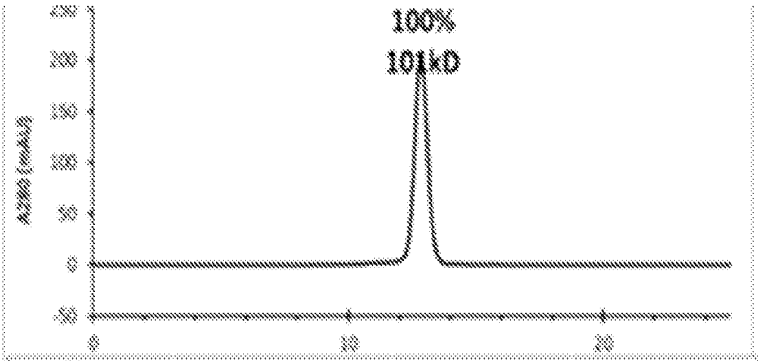


Figure 18B



pI(MW) = 6.41 (74.0 kDa)
Protein A yield = 68.1 mg/L

Figure 18C

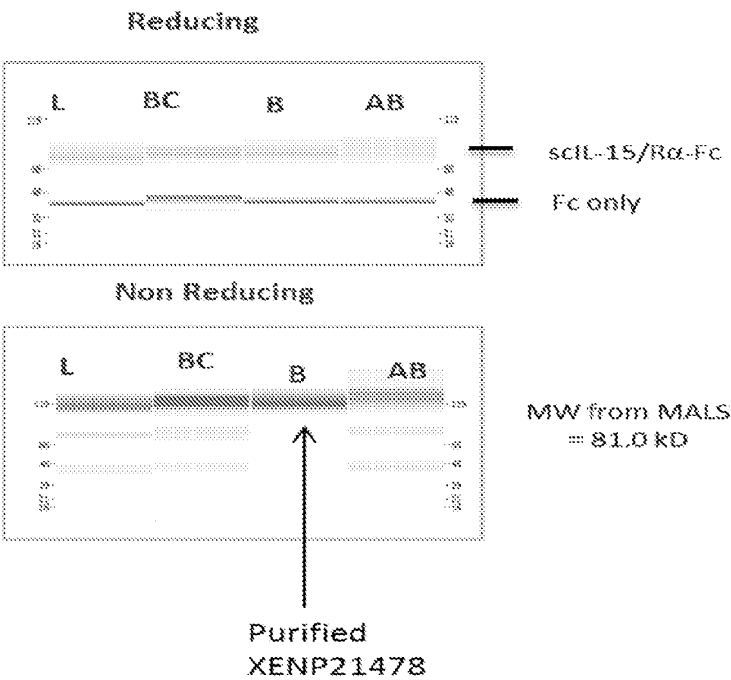
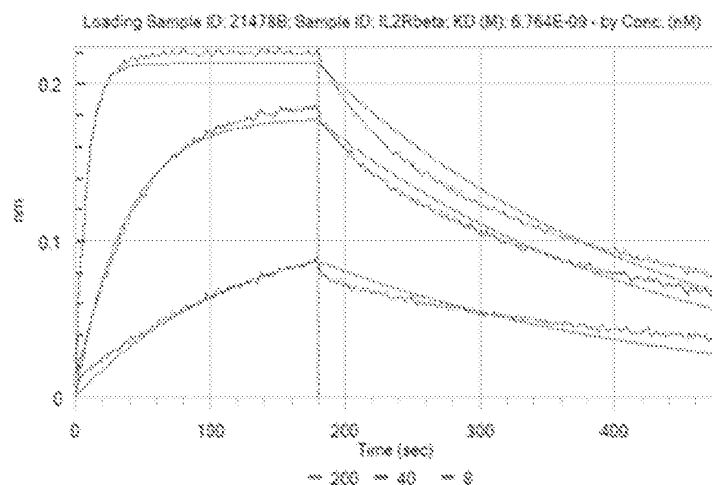


Figure 18D



Octet Red 96 – AHC capture of XENP21478;
dip in 200 nM, 40 nM, or 8 nM IL2R β (R&D
systems); KD ~ 3 nM

Figure 18E

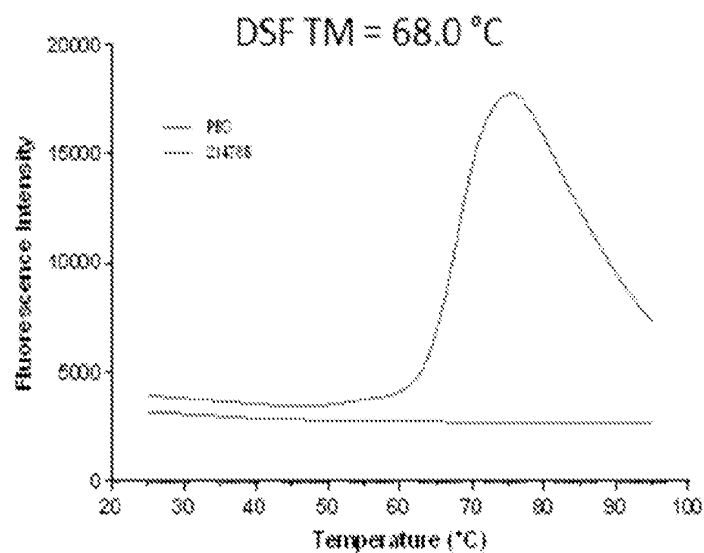


Figure 19A

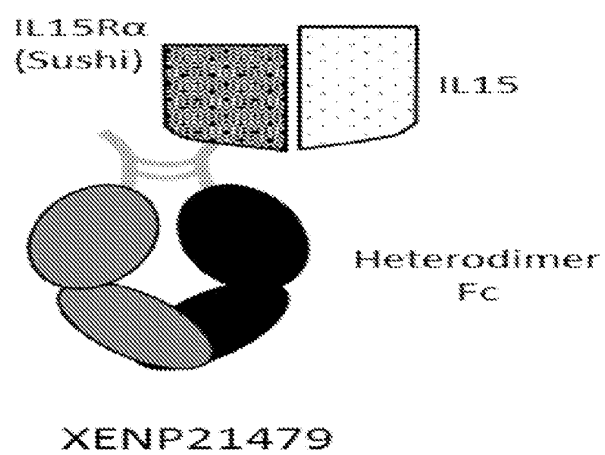
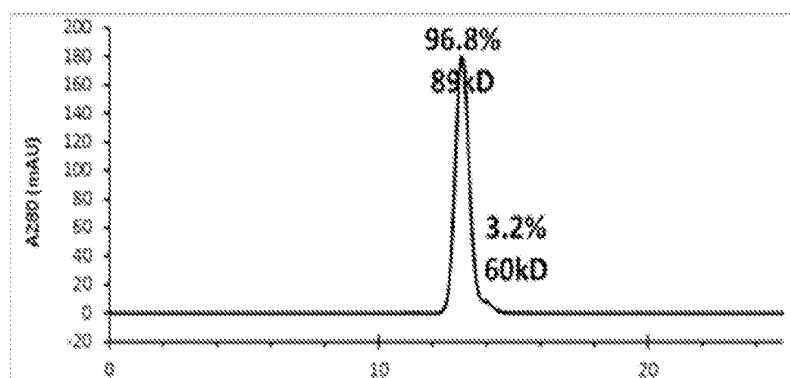


Figure 19B



pI(MW) = 6.41 (72.1 kDa)
Protein A yield = 57.1 mg/L

Figure 19C

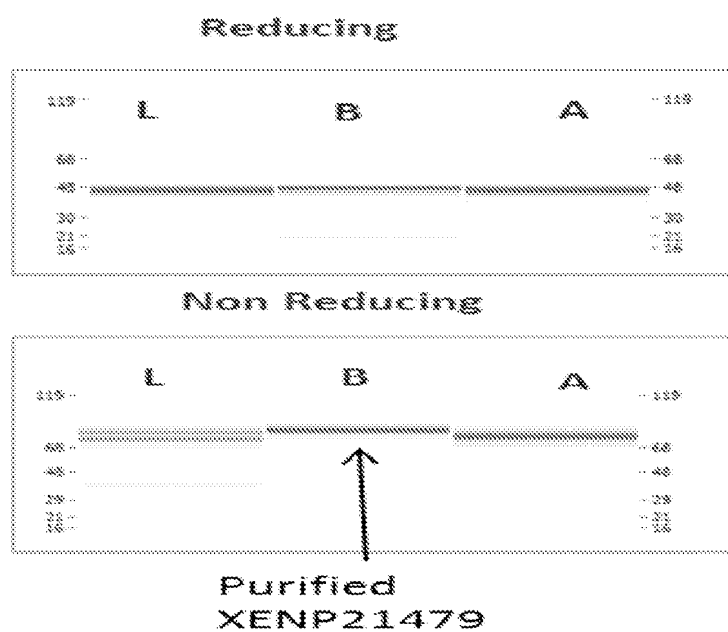
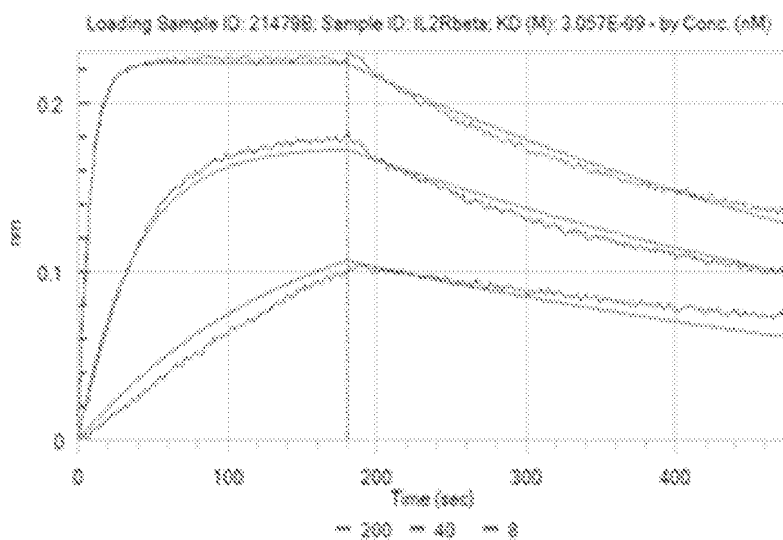


Figure 19D



Octet Red 96 – AHC capture of XENP21479;
 dip in 200 nM, 40 nM, or 8 nM IL2R β (R&D
 systems); KD ~ 3 nM

Figure 19E

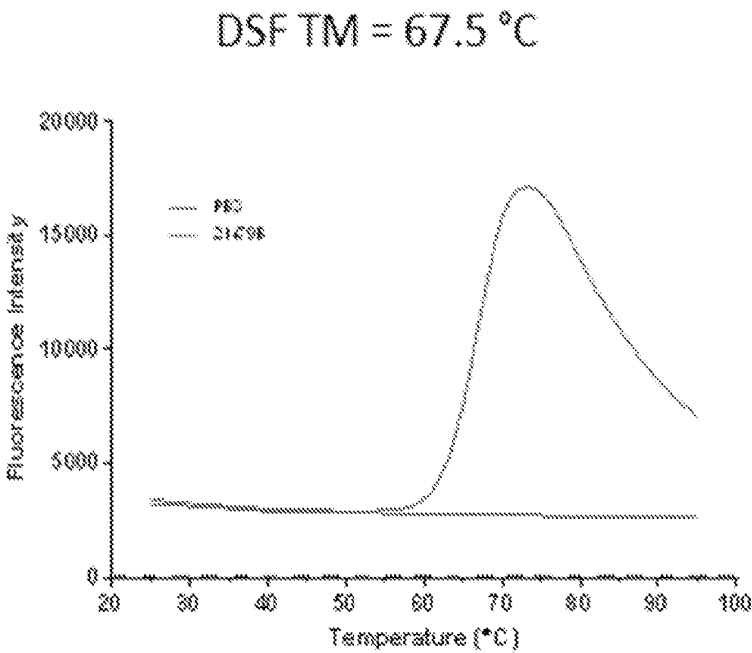


Figure 20A

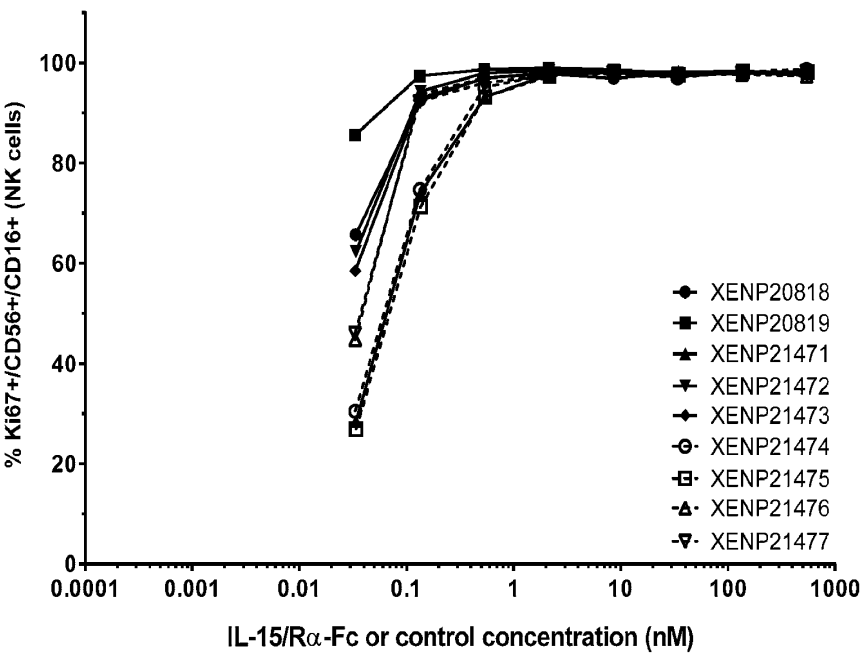


Figure 1 is a line graph showing the percentage of Ki67+/CD4+ cells in response to IL-15/Rα-Fc or control concentration (nM) for various XENP cell lines. The x-axis is logarithmic, ranging from 0.01 to 1000 nM. The y-axis is linear, ranging from 0 to 100%. The legend lists nine cell lines: XENP20818 (solid circle), XENP20819 (solid square), XENP21471 (solid triangle), XENP21472 (solid cross), XENP21473 (solid diamond), XENP21474 (open circle), XENP21475 (open square), XENP21476 (open triangle), and XENP21477 (open inverted triangle). All cell lines show a similar trend, with a slight increase in Ki67+/CD4+ cells as the concentration of IL-15/Rα-Fc increases, peaking around 10-100 nM and then slightly decreasing or stabilizing at 1000 nM. XENP21475 generally shows the highest percentage of Ki67+/CD4+ cells at higher concentrations, reaching approximately 25% at 1000 nM.

Concentration (nM)	XENP20818	XENP20819	XENP21471	XENP21472	XENP21473	XENP21474	XENP21475	XENP21476	XENP21477
0.01	~5	~5	~5	~5	~5	~5	~5	~5	~5
0.1	~7	~7	~7	~7	~7	~7	~7	~7	~7
1	~10	~13	~10	~10	~10	~10	~10	~10	~10
10	~15	~18	~15	~15	~15	~15	~18	~15	~15
100	~15	~20	~15	~15	~15	~15	~20	~15	~15
1000	~18	~20	~18	~18	~18	~18	~25	~18	~18

Figure 1 is a line graph showing the percentage of Ki67+/CD8+ cells (Y-axis, 0 to 100) versus IL-15/IL15R α or control concentration (nM) (X-axis, logarithmic scale from 0.0001 to 1000). The graph displays the proliferation of various XENP cell lines in response to IL-15 treatment. The cell lines and their corresponding symbols are: XENP20818 (filled circle), XENP20819 (filled square), XENP21471 (filled triangle), XENP21472 (filled inverted triangle), XENP21473 (filled diamond), XENP21474 (open circle), XENP21475 (open square), XENP21476 (open triangle), and XENP21477 (open inverted triangle). All cell lines show a dose-dependent increase in Ki67+/CD8+ cells with increasing IL-15 concentration. XENP20818 and XENP20819 show the highest proliferation, reaching approximately 80% Ki67+/CD8+ cells at 1000 nM. XENP21474 and XENP21477 show the lowest proliferation, reaching approximately 70% Ki67+/CD8+ cells at 1000 nM.

Figure 21A

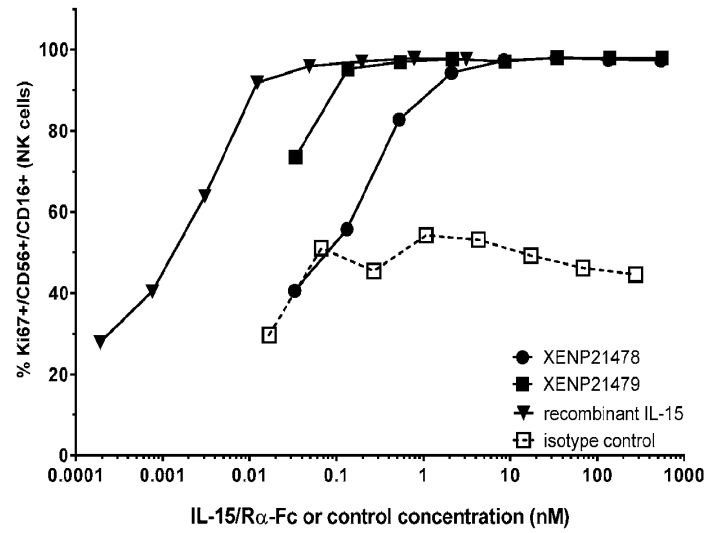


Figure 21B

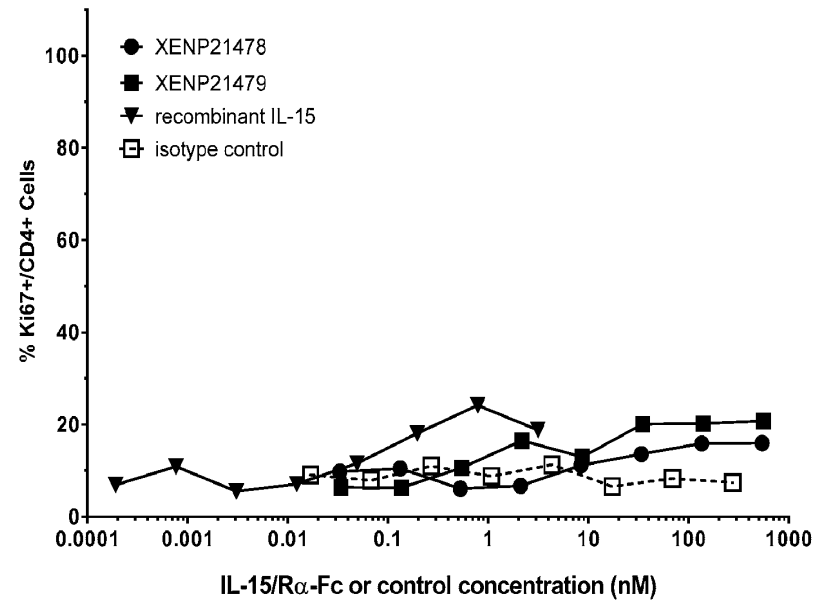


Figure 21C

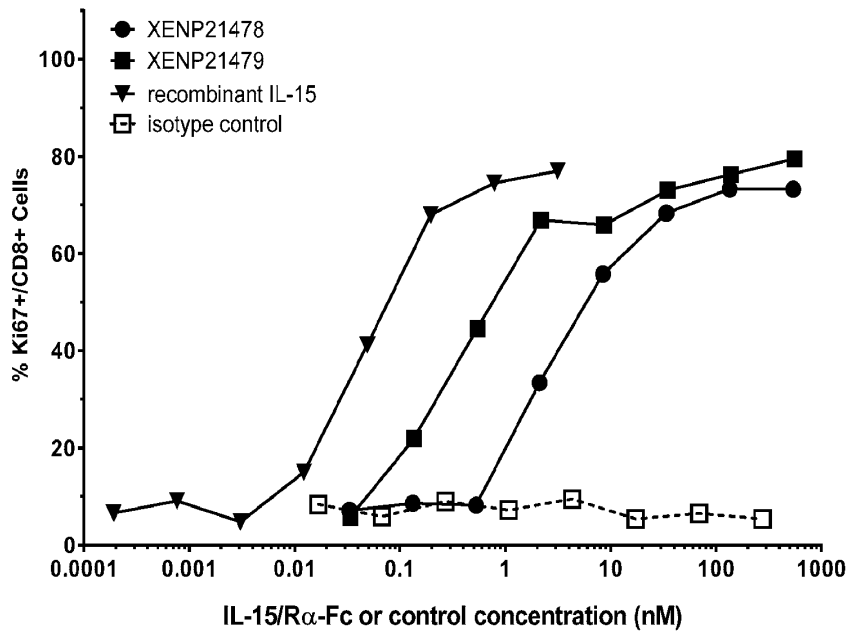


Figure 22

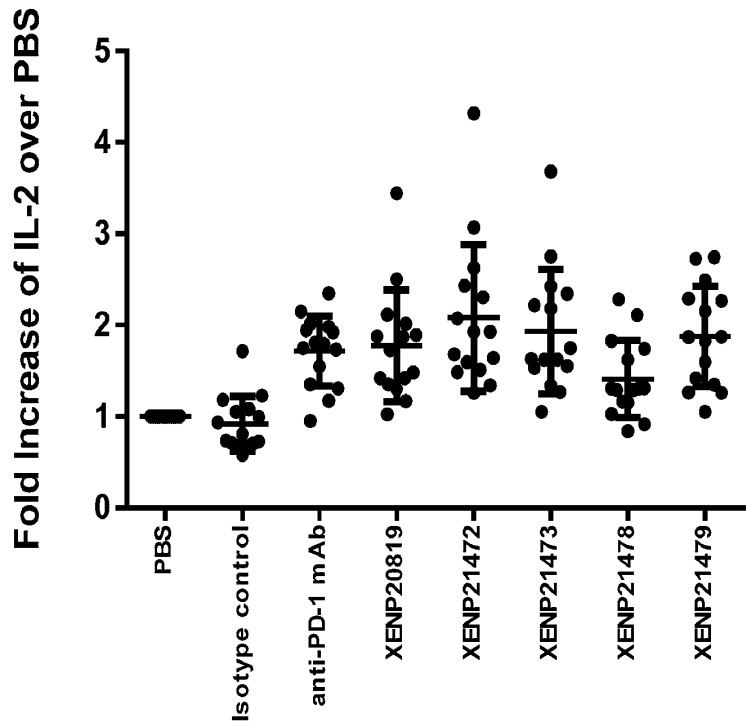


Figure 23

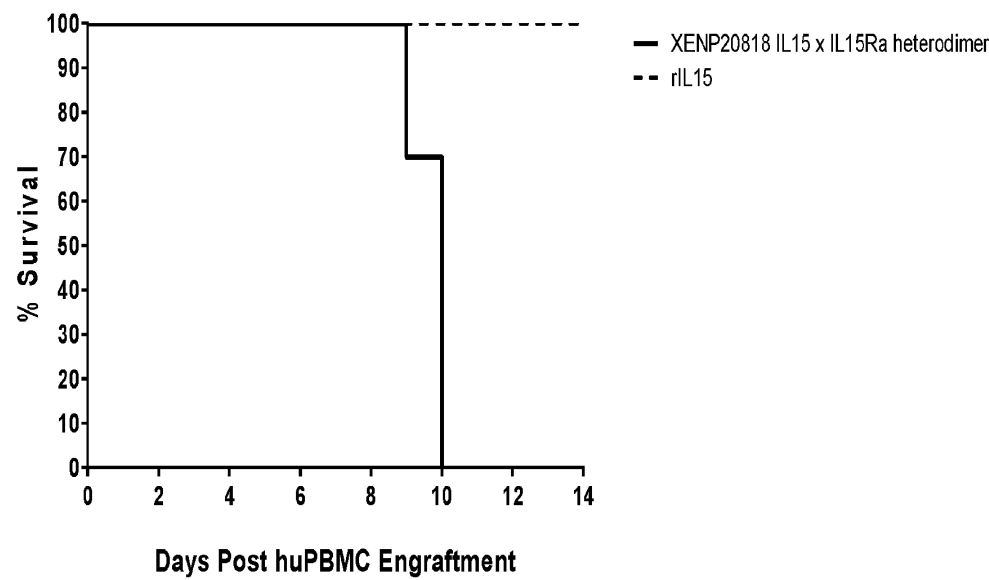


Figure 24

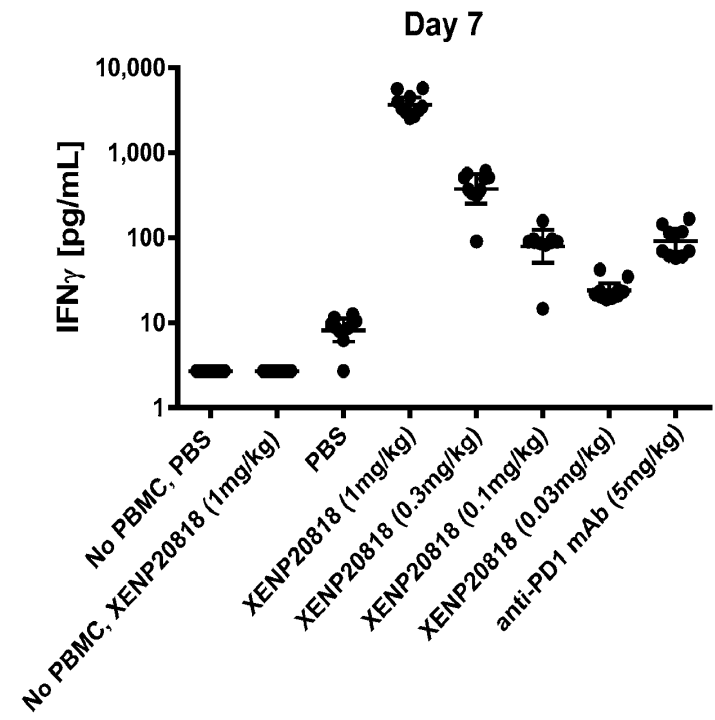


Figure 25A

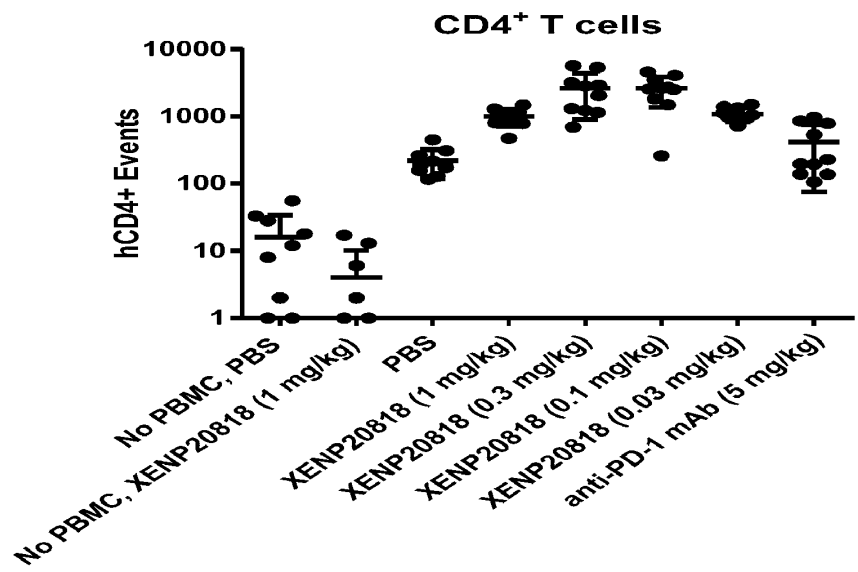


Figure 25B

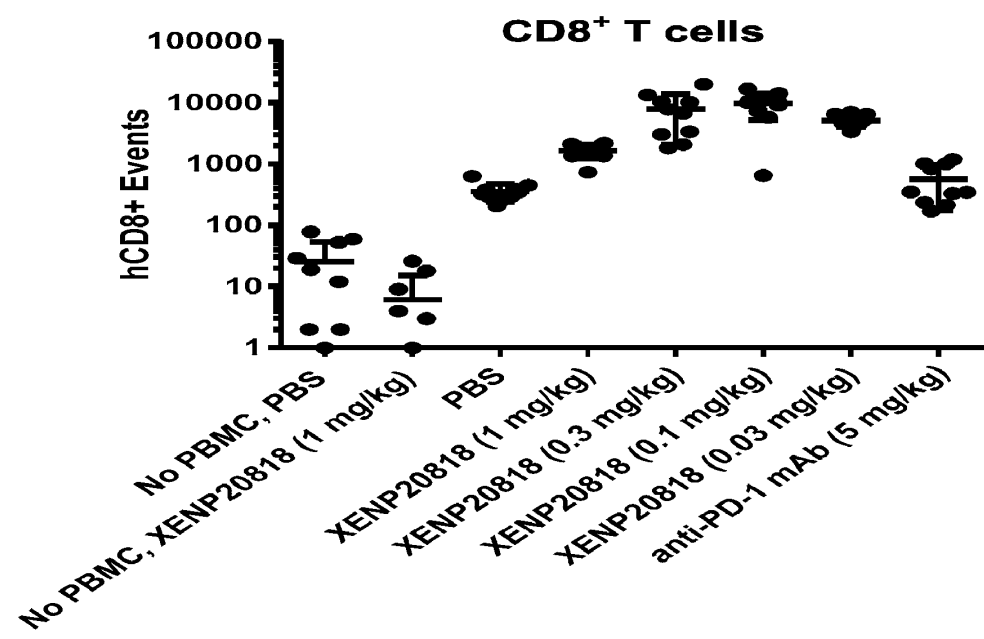


Figure 25C

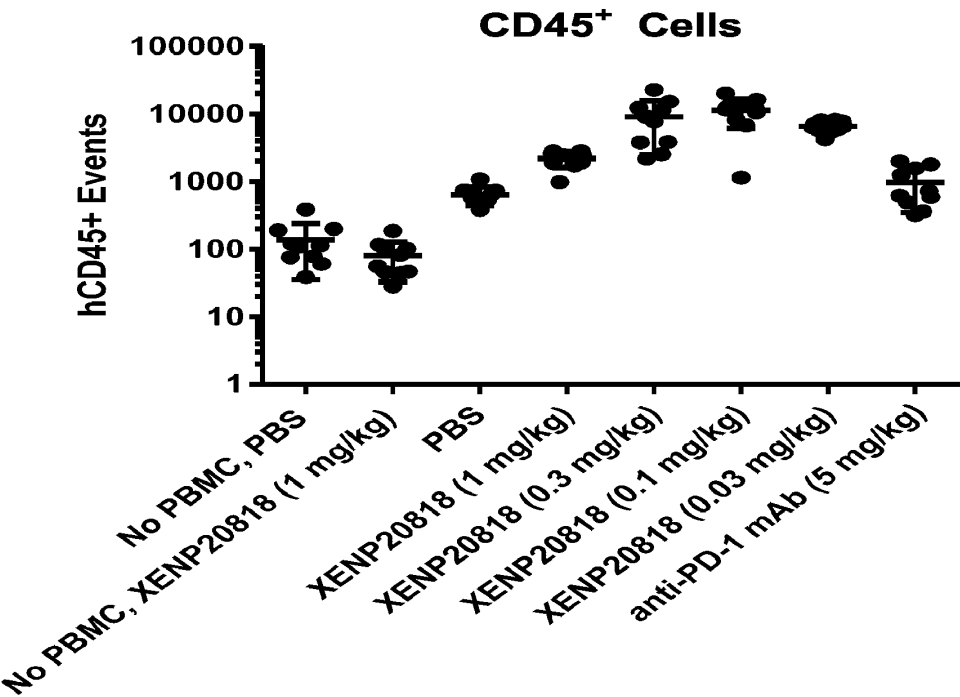


Figure 26

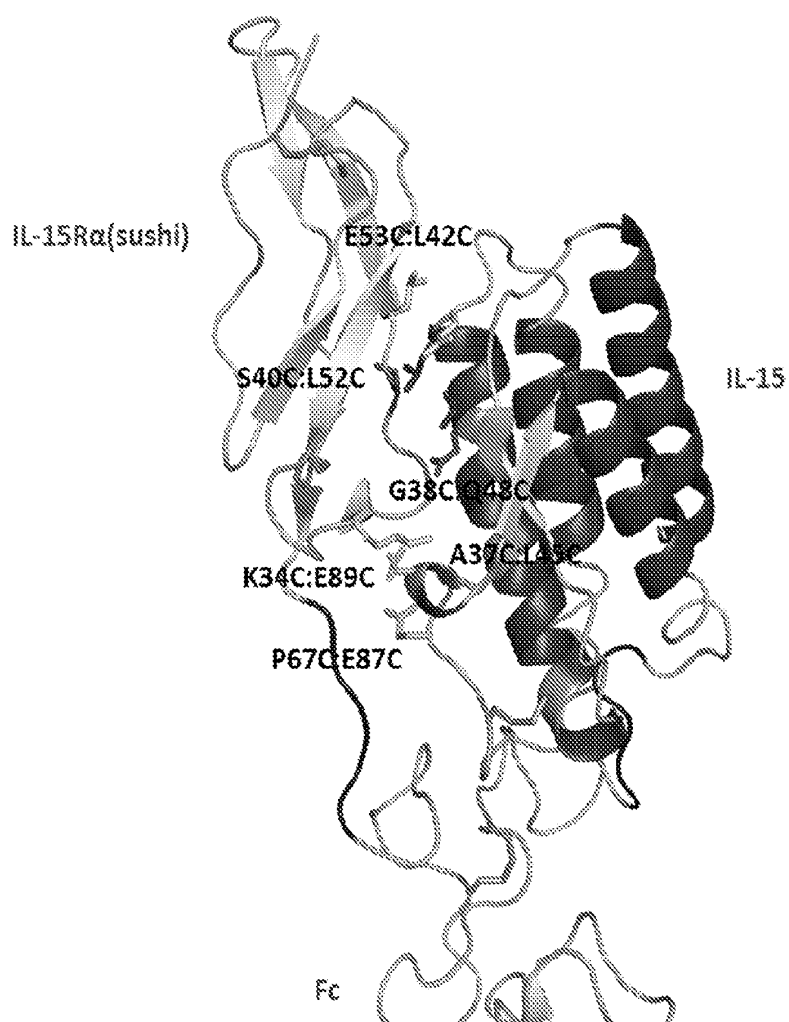


Figure 27**IL-15R α (sushi-D96) (SEQ ID NO: 102)**ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVINKATINVAHWITPSLKCIRD**IL-15R α (sushi-D96/P97) (SEQ ID NO: 103)**ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVINKATINVAHWITPSLKCIRDP**IL-15R α (sushi-D96/P97/A98) (SEQ ID NO: 104)**ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVINKATINVAHWITPSLKCIRDPA

Figure 28**IL-15 (E87C) (SEQ ID NO: 105)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

IL-15 (V49C) (SEQ ID NO: 106)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQCISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

IL-15 (L52C) (SEQ ID NO: 107)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISCES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

IL-15 (E89C) (SEQ ID NO: 108)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

IL-15 (Q48C) (SEQ ID NO: 109)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELCVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

IL-15 (E53C) (SEQ ID NO: 110)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLCS GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

IL-15 (C42S) (SEQ ID NO: 111)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKSFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

IL-15 (L45C) (SEQ ID NO: 112)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLCELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Figure 29**IL-15R α (sushi-D96/C97) (SEQ ID NO: 113)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD C

IL-15R α (sushi-D96/P97/C98) (SEQ ID NO: 114)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDPC

IL-15R α (sushi-D96/C97/A98) (SEQ ID NO: 115)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDCA

IL-15R α (sushi-S40C) (SEQ ID NO: 116)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTTPSLKCIR

IL-15R α (sushi-K34C) (SEQ ID NO: 117)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFCKRAGTSSLTECVLNKATNVAHWTTPSLKCIR

IL-15R α (sushi-G38C) (SEQ ID NO: 118)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKACTSSLTECVLNKATNVAHWTTPSLKCIR

IL-15R α (sushi-L42C) (SEQ ID NO: 119)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSCTECVLN KATNVAHWTTPSLKCIR

IL-15R α (sushi-A37C) (SEQ ID NO: 120)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKCGTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 30A

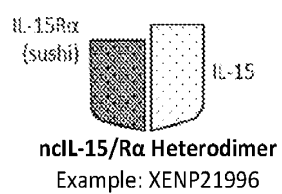


Figure 30B

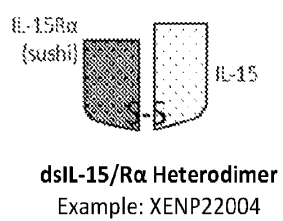


Figure 30C

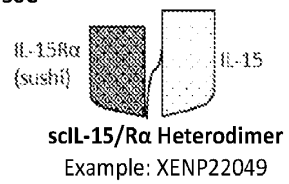


Figure 31

>XENP021996 - human_IL15(non-covalent)-human_IL15Ra(Sushi)

Chain 1 - human_IL15_no_tag (16484) (SEQ ID NO: 121)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi) (17033) (SEQ ID NO: 122)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 32

>XENP022004 - human IL15 E87C-human IL15Ra(Sushi-D96/C97)**Chain 1 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 123)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi-D96/C97) (17051) (SEQ ID NO: 124)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD C

>XENP022005 - human IL15 E87C-human IL15Ra(Sushi-D96/P97/C98)**Chain 1 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 125)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi-D96/P97/C98) (17052) (SEQ ID NO: 126)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD PC

>XENP022006 - human IL15 E87C-human IL15Ra(Sushi-D96/C97/A98)**Chain 1 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 127)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi-D96/C97/A98) (17053) (SEQ ID NO: 128)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD CA

>XENP022008 - human IL15 L52C-human IL15Ra(Sushi-S40C)**Chain 1 - human_IL15_L52C_no_tag (17072) (SEQ ID NO:**

129)NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISCESGDASIHDTVENLII LANNSLS
SLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi-S40C) (17057) (SEQ ID NO: 130)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTTPSLKCIR

>XENP022494 – human IL15 L45C-human IL15Ra(Sushi-A37C)**Chain 1 - human_IL15_L45C_no_tag (17069) (SEQ ID NO: 131)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi-A37C) (17055) (SEQ ID NO: 132)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKCGTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 33

>XENP022049 - human IL15Ra(sushi) (GGGGS)6-human IL15-sc (SEQ ID NOS 133-135)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGGSGGGG
SGGGSGGGSGGGSGGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLQLQVISLE
SGDASIHDTVENLII LANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Figure 34

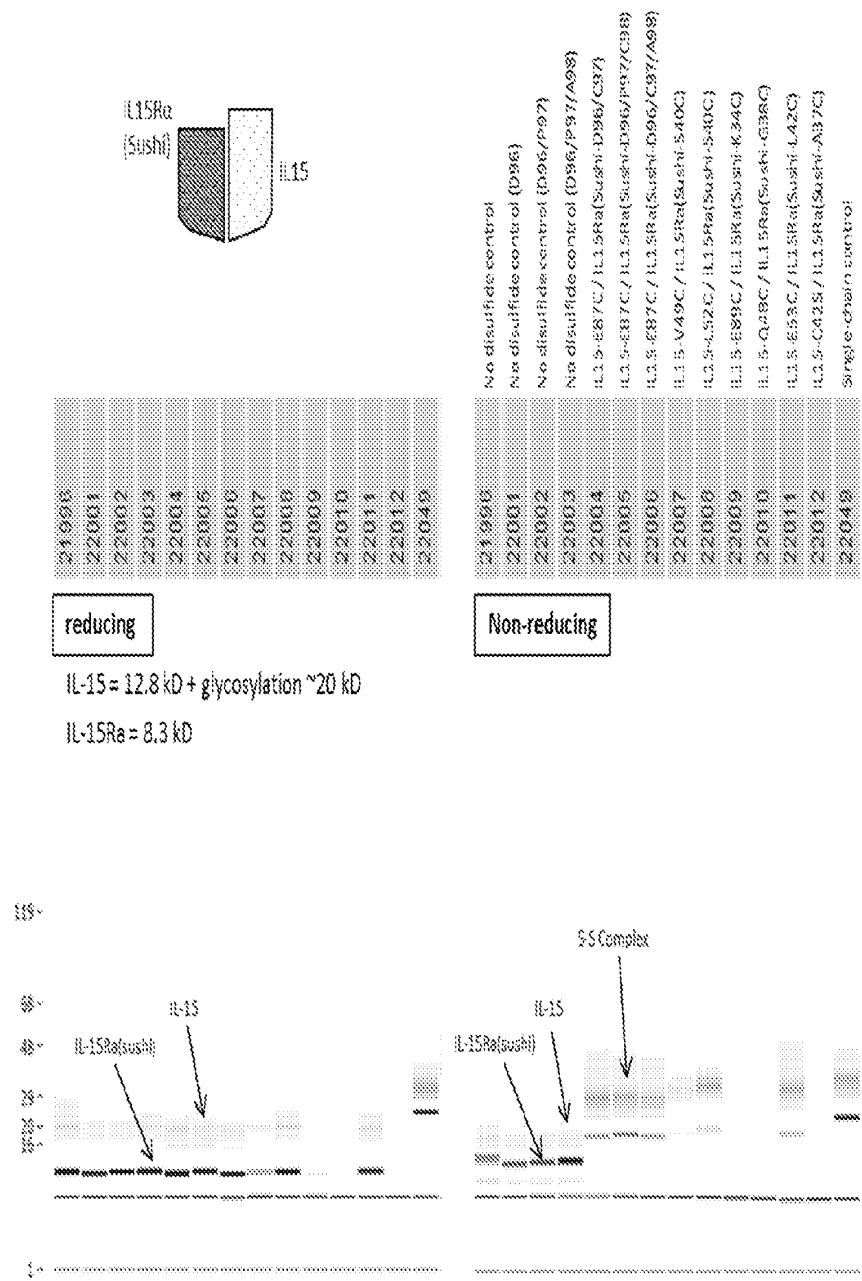


Figure 35

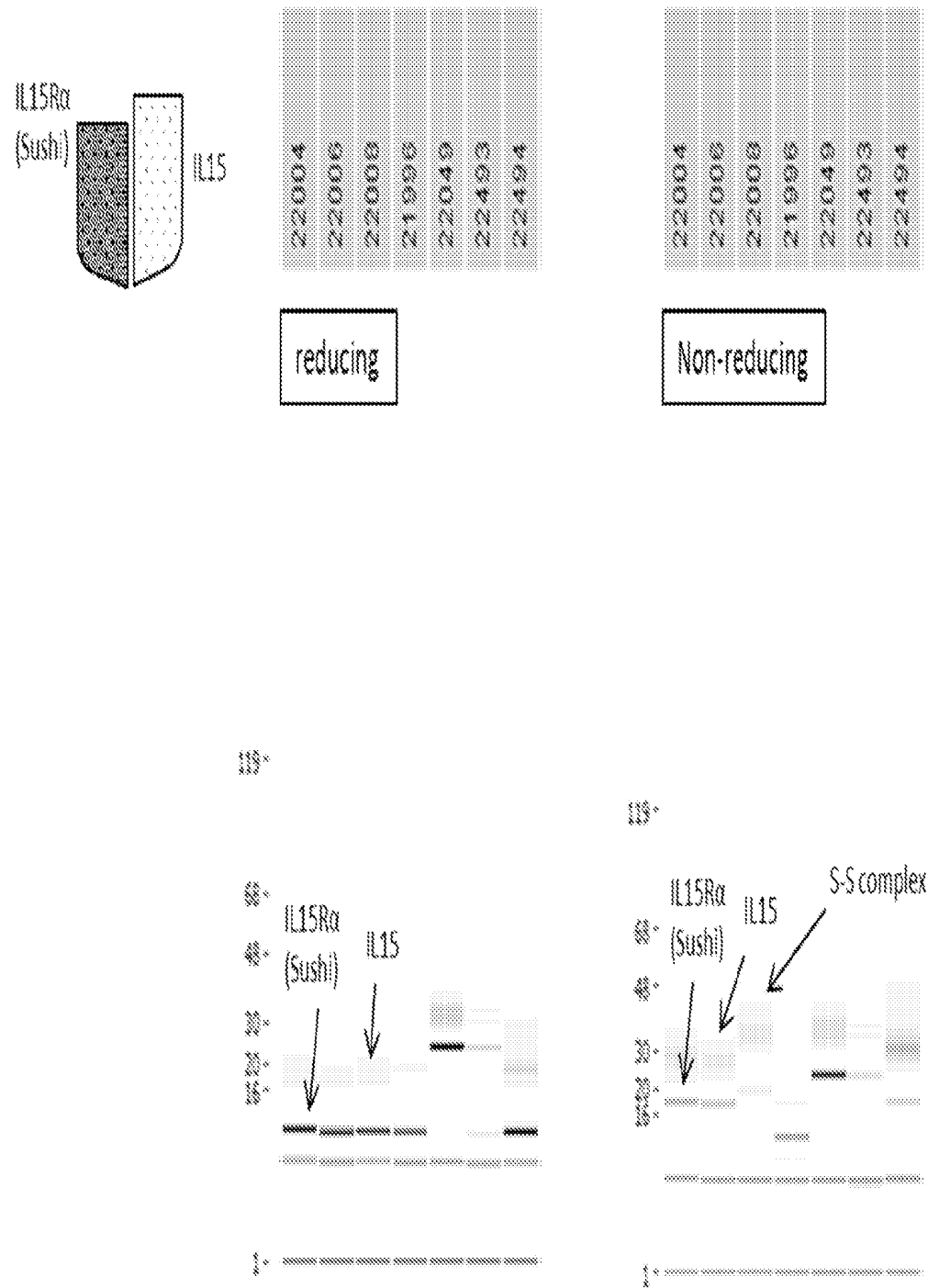


Figure 36

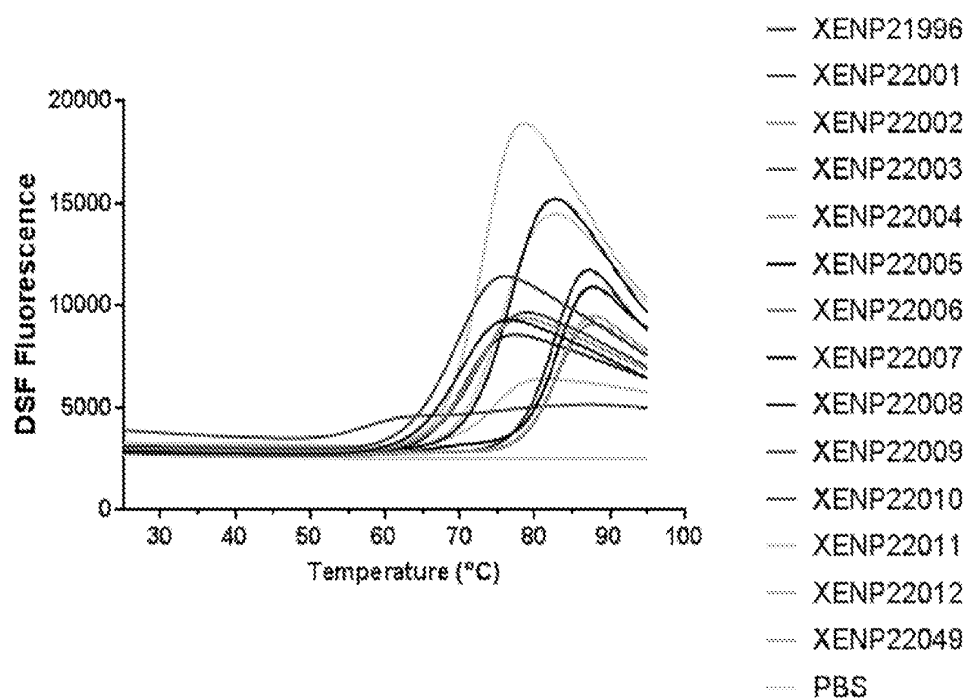


Figure 37

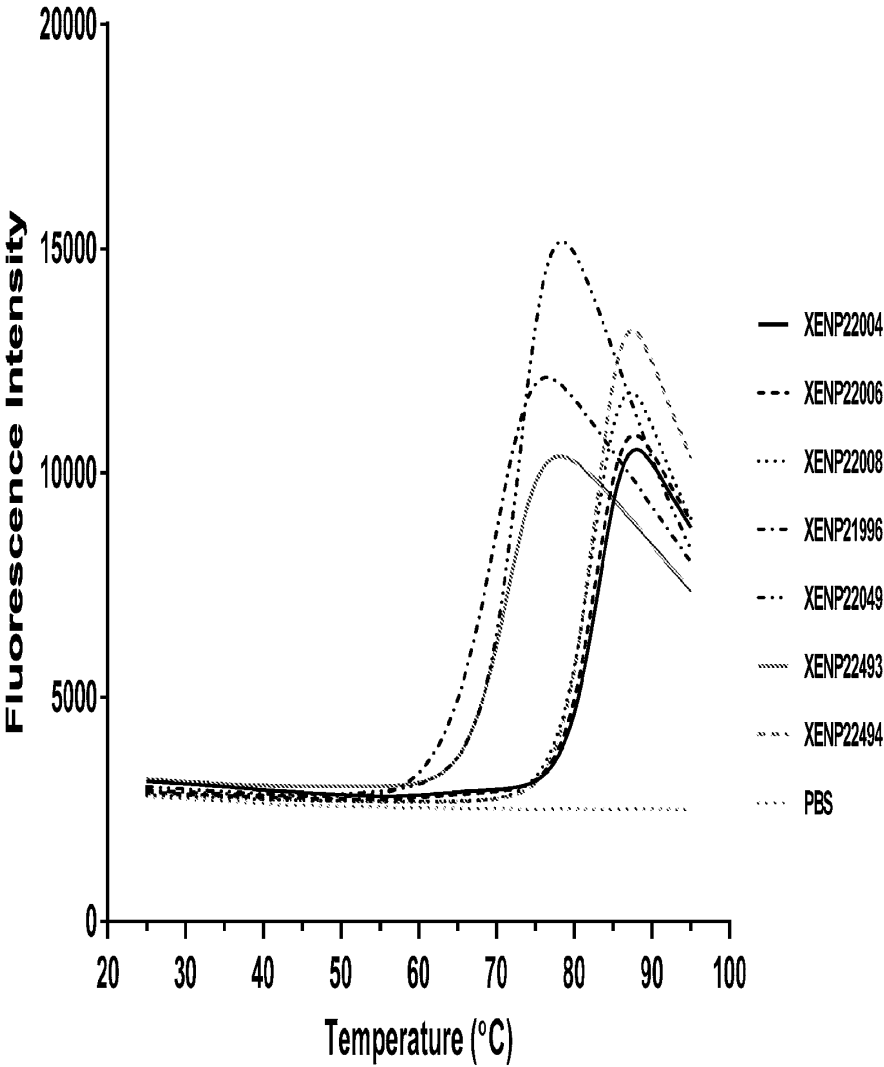


Figure 38

<u>XENP</u>	<u>Variant</u>	<u>Yield</u> (mg/ml)	<u>MW</u> (g/mol)	<u>Calculated</u> <u>ΔAffinity</u>	<u>T_m</u> (°C)	<u>IL2Rβ</u> <u>Affinity</u> (~nM K _D)
21996	No Disulfide Control IL-15/R α	8.04	21079.9	NA	70.0	6.3
22001	No Disulfide Control IL-15/R α (D96)	2.45	21195.0	NA	70.0	5.2
22002	No Disulfide Control IL-15/R α (D96/P97)	2.47	21292.1	NA	72.0	7.4
22003	No Disulfide Control IL-15/R α (D96/P97/A98)	3.48	21363.2	NA	72.5	5.7
22004	IL-15(E87C)/R α (D96/C97)	4.58	21272.2	-7.61	83.0	4.1
22005	IL- 15(E87C)/R α (D96/C97/A98)	8.4	21369.3	NA	83 (shoulder)	6.1
22006	IL- 15(E87C)/R α (D96/C97/A98)	3.19	21343.2	-7.61	83.0	5.1
22007	IL-15(V49C)/R α (S40C)	1.58	21100.0	1.22	77.0	11
22008	IL-15(L52C)/R α (S40C)	4.56	21085.9	-0.97	82.5	17
22009	IL-15(E89C)/R α (K34C)	0.51	21028.9	-0.33	70.5	7.3
22010	IL-15(Q48C)/R α (G38C)	0.42	21101.0	0.91	57.5	3.8
22011	IL-15(E53C)/R α (L42C)	3.72	21043.9	3.73	76.0	17
22012	IL-15(C42S)/R α (A37C)	0.44	21095.9	NA	75.0	5.3
22049	Single-chain control	5.77	22953.6	NA	73.0	22
22493	IL-15(L45C)/R α (G38C)	0.40	21116.0	0.77	71.5	NA
22494	IL-15(L45C)/R α (A37C)	3.63	21101.9	0.63	82.5	NA

Figure 39A

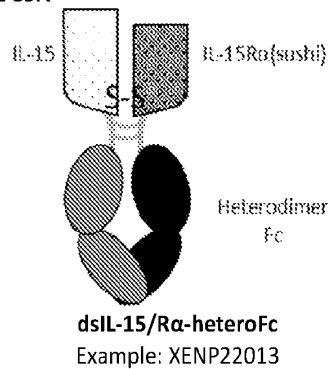


Figure 39B

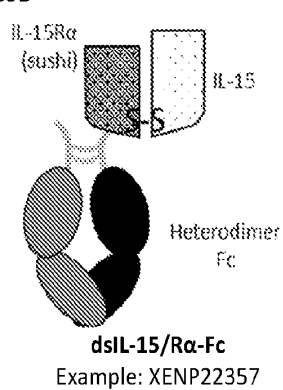


Figure 39C

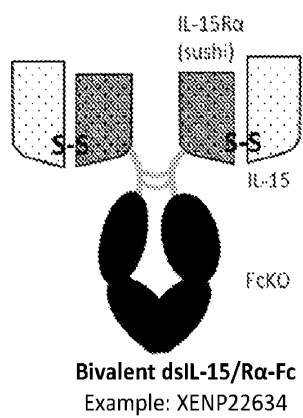


Figure 39D

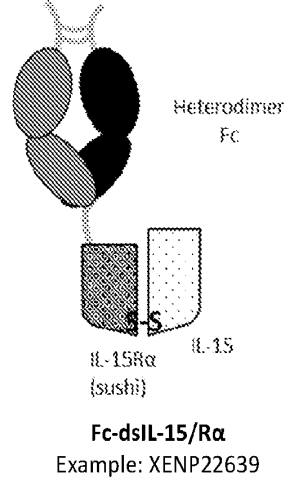


Figure 40A

>XENP022013 human IL15_E87C (GGGGS)1-human IL15Ra(Sushi-D96/C97) (GGGGS)1 Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_E87C_(GGGGS)1_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S
(SEQ ID NOS 136-138)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVLSLESGDASIHDTVENLIILANNLSNNGNVTESGCKCCEE
LEEKNIKEFTQS FVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKF
NWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
TCDVSGFYPSDIAVEWESDGPENNYKITPPVLDSDGSFFLYSKLITVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi-D96/C97)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ
ID NOS 139-141)

ITCPPPMSVEHADIWKSYSLSRERYICNSGFKRAGTSSLTECVLNKATNVAHWITPSLKCI RDC/GGGGS/EPKSSDKTHTCPPCPA
PPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKENWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCK
VSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKITPPVLDSDGSFFLYSKLITV
DKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

>XENP022014 human IL15_E87C (GGGGS)1-human IL15Ra(Sushi-
D96/P97/C98) (GGGGS)1 Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_E87C_(GGGGS)1_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S
(SEQ ID NOS 142-144)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVLSLESGDASIHDTVENLIILANNLSNNGNVTESGCKCCEE
LEEKNIKEFTQS FVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKF
NWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
TCDVSGFYPSDIAVEWESDGPENNYKITPPVLDSDGSFFLYSKLITVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi-D96/P97/C98)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q
(SEQ ID NOS 145-147)

ITCPPPMSVEHADIWKSYSLSRERYICNSGFKRAGTSSLTECVLNKATNVAHWITPSLKCI RDC/GGGGS/EPKSSDKTHTCPPCP
APPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKENWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCK
VSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKITPPVLDSDGSFFLYSKLIT
VDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

>XENP022015 human IL15_E87C (GGGGS)1-human IL15Ra(Sushi-D96/C97/A98) (GGGGS)1 Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_E87C_(GGGGS)1_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S
(SEQ ID NOS 148-150)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVLSLESGDASIHDTVENLIILANNLSNNGNVTESGCKCCEE
LEEKNIKEFTQS FVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKF
NWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
TCDVSGFYPSDIAVEWESDGPENNYKITPPVLDSDGSFFLYSKLITVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi-D96/C97/A98)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q
(SEQ ID NOS 151-153)

ITCPPPMSVEHADIWKSYSLSRERYICNSGFKRAGTSSLTECVLNKATNVAHWITPSLKCI RDC/GGGGS/EPKSSDKTHTCPPCP
APPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKENWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCK
VSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKITPPVLDSDGSFFLYSKLIT
VDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

Figure 40B

>XENP022017 human IL15 L52C (GGGGS)1-human IL15Ra(Sushi-S40C) (GGGGS)1 Fc(216) IgG1 pl(-)
Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

**Chain 1 – human_IL15_L52C_(GGGGS)1-_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S
(SEQ ID NOS 154-156)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVITAMKCFLELQVISCESGDASIHDTVENLIILANNLSNQNVTESGCKECEE
LEEKNIKEFTQS FVHIVQMFINTS/ GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKF
NWYVDGVEVHNATKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
TCDVSGEYFPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGVDFSCVMHEALHNHYTQKSLSLSPGK

**Chain 2 – human_IL15Ra(Sushi-S40C)_(GGGGS)1-_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID
NOS 157-159)**

ITCPPPMSEVHADIWVKSYSLSRERYICNSGEKFRKAGTCSLTCEVLNKATNVAHWITPSLKCIR/ GGGGS/EPKSSDKTHTCPPCPAPP
VAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKFNWYVDGVEVHNATKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVS
NKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDK
SRWQQGNVFSCVMHEALHNHYTQKSLSLSPGK

Figure 41A

>XENP022358 – empty-Fc-IL15 E87C-human IL15Ra(Sushi-D96/P97/C98) (GGGGS)1 Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 160)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLS
SNGNVTESGCKCCEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 161)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGDVFSCSVMHEALHNHYTQKSLSLSPGK

Chain 3 - human_IL15Ra(Sushi-D96/P97/C98)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (17039) (SEQ ID NOS 162-164)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCI RDPC/ GGGGS/
EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

>XENP022359 – empty-Fc-IL15 E87C-human IL15Ra(Sushi-D96/C97/A98) (GGGGS)1 Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 165)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLS
SNGNVTESGCKCCEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 166)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGDVFS CSVMHEALHNHYTQKSLSLSPGK

Chain 3 - human_IL15Ra(Sushi-D96/C97/A98)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (17040) (SEQ ID NOS 167-169)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCI RDCA/ GGGGS/
EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

Figure 41B

**>XENP022361 – empty-Fc-IL15 L52C-human IL15Ra(Sushi-S40C) (GGGGS)1 Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q**

Chain 1 - human_IL15_L52C_no_tag (17072) (SEQ ID NO: 170)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVAMKCFLELQVISCESGDASIHDTVENLII LANNSLS
 SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 171)

EPKSSDKHTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CDVSGFYPSPDI AVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLS
 LSPGK

**Chain 3 - human_IL15Ra(Sushi-S40C)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (17044)
 (SEQ ID NOS 172-174)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWITP SLKCIR/ GGGGS/ EPK
 SSDKHTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSPDI AVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLS
 PGK

**>XENP022684 empty-Fc-IL15 E87C-human IL15Ra(Sushi-D96/C97/A98) Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q**

Chain 1 – IL15_E87C (SEQ ID NO: 175)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVAMKCFLELQVISLES GDASIHDTVENLII LANNSLSSNGNVTESGCKCEE
 LEEKNIKEFLQSFVHIVQMFINTS

**Chain 2 - IL15Ra(Sushi-D96/C97/A98)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S
 (SEQ ID NOS 176-178)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITP SLKCIRDCN/ EPKSSDKHTHTCPPCPAPPVAG
 PSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
 LPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFPSPDI AVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW
 QQGNVFS CSVMHEALHNHYTQKSLSLSPGK

Figure 42

>XENP022634 – human IL15(E87C)-human IL15Ra(Sushi-D96/C97) Fc(216) IgG1 C220S/PVA /S267K**Chain 1 - human_IL15Ra(Sushi-D96/C97)-Fc(216)_IgG1_C220S/PVA_/S267K (17581)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIKDC/EPKSSDK
THTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNS
TYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFY
PSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNNHTQKSLSLSPGK
(SEQ ID NOS 179-181)

Chain 2 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 182)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVENLII LANNSLS
SNGNVTESGCKCEELEEKNIKEFLQSFVHIVQMFINITS

>XENP022635 – human IL15(E87C)-human IL15Ra(Sushi-D96/C97/A98) Fc(216) IgG1 C220S/PVA /S267K**Chain 1 - human_IL15Ra(Sushi-D96/C97/A98)-Fc(216)_IgG1_C220S/PVA_/S267K (17582) (SEQ ID NOS 183-185)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIKDC/EPKSSDK
KTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNS
STYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGF
YPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNNHTQKSLSLSPGK

Chain 2 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 186)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVENLII LANNSLS
SNGNVTESGCKCEELEEKNIKEFLQSFVHIVQMFINITS

>XENP022636 – human IL15(L52C)-human IL15Ra(Sushi-S40C) Fc(216) IgG1 C220S/PVA /S267K**Chain 1 - human_IL15Ra(Sushi-S40C)-Fc(216)_IgG1_C220S/PVA_/S267K (17583) (SEQ ID NOS 187-189)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTCSLTCVLNKATNVAHWTPSLKCIKDC/EPKSSDKTH
TCTPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNNHTQKSLSLSPGK

Chain 2 - human_IL15_L52C_no_tag (17072) (SEQ ID NO: 190)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISCESQDASIHDTVENLII LANNSLS
SNGNVTESGCKCEELEEKNIKEFLQSFVHIVQMFINITS

Figure 43

>XENP022639 – empty-Fc(216)_IgG1_pl(-)
) Isosteric_A_C220S/PVA_/S267K/L368D/K370S_(GGGGS)2_IL15Ra(Sushi-
 D96/C97)_IL15(E87C)_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q

Chain 1 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S_(GGGGS)2_IL15Ra(Sushi-D96/C97) (17605) (SEQ ID NOS 191-193)

EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVFSFCSVMHEALHNHYTQKSLS
 LSPGK/GGGSGGGGS/ITCPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWT
TPSLKCIRD

Chain 2 - empty-Fc(216)_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q (8927) (SEQ ID NO: 194)

ERKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSFCSVMHEALHNHYTQKSLS
 LSPGK

Chain 3 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 195)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLS
SNGNVTESGCKCEELEEKNIKEFLQSFVHIVQMFINTS

>XENP022640 empty-Fc(216)_IgG1_pl(-)
) Isosteric_A_C220S/PVA_/S267K/L368D/K370S_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q_(GGGGS)
)2_IL15Ra(Sushi-D96/C97)_IL15(E87C)

Chain 1 – IL15 (SEQ ID NO: 196)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLSSNGNVTESGCKCEE
LEEKNIKEFLQSFVHIVQMFINTS

Chain 2 – empty_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NO: 197)

EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVL
 TVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 VLDSGGSFFLYSKLTVDKSRWQQGDVFSFCSVMHEALHNHYTQKSLSLSPGK

Figure 44

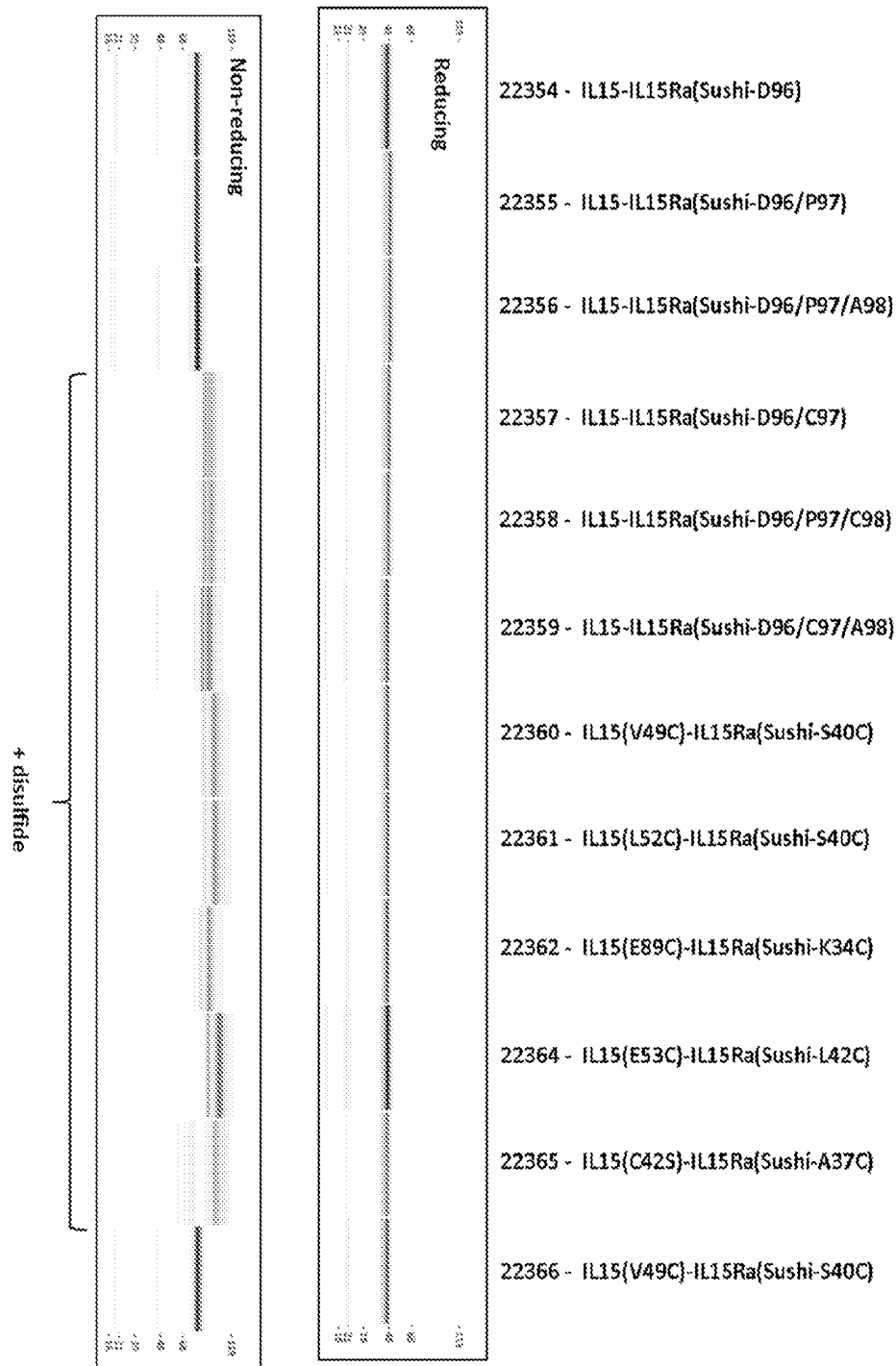


Figure 45A

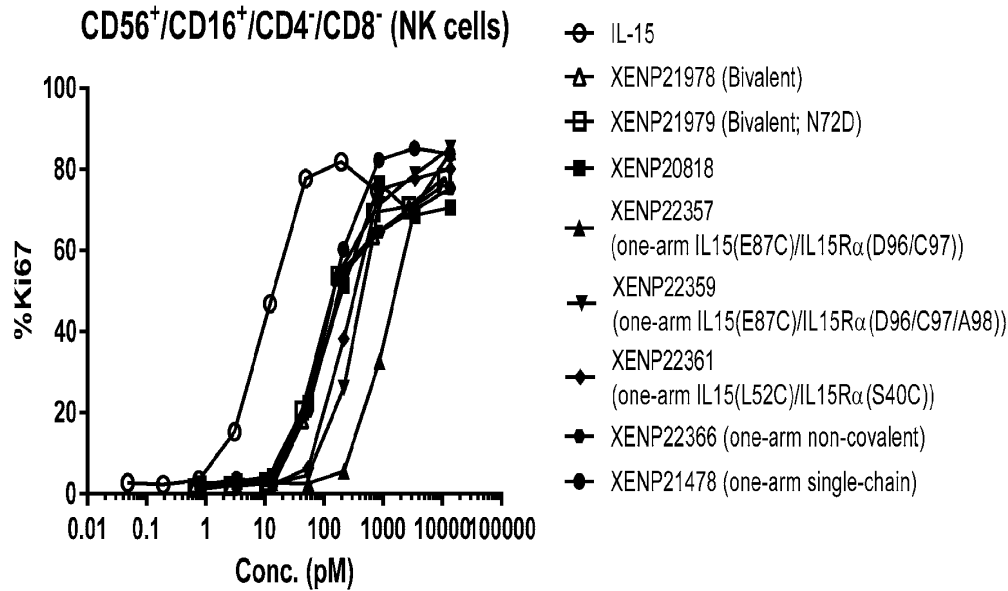


Figure 45B

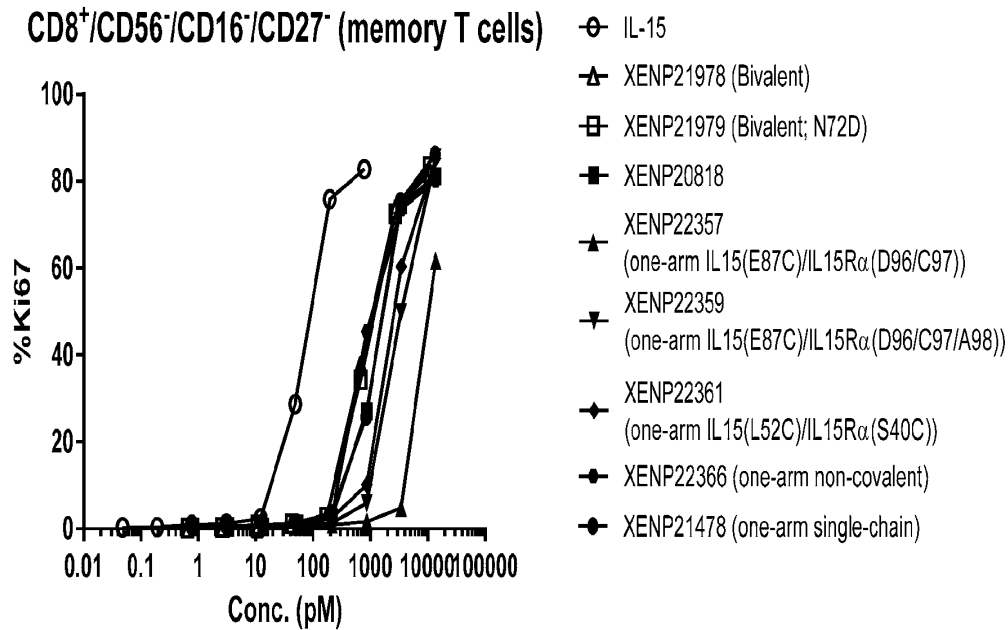


Figure 45C

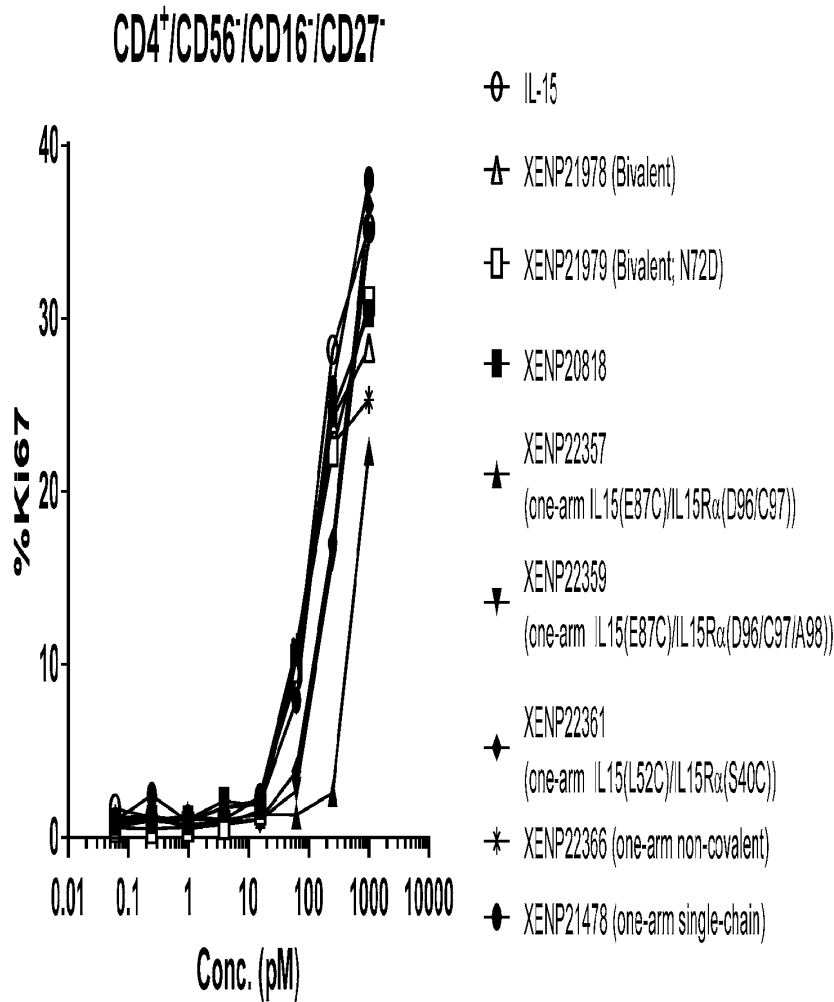


Figure 46

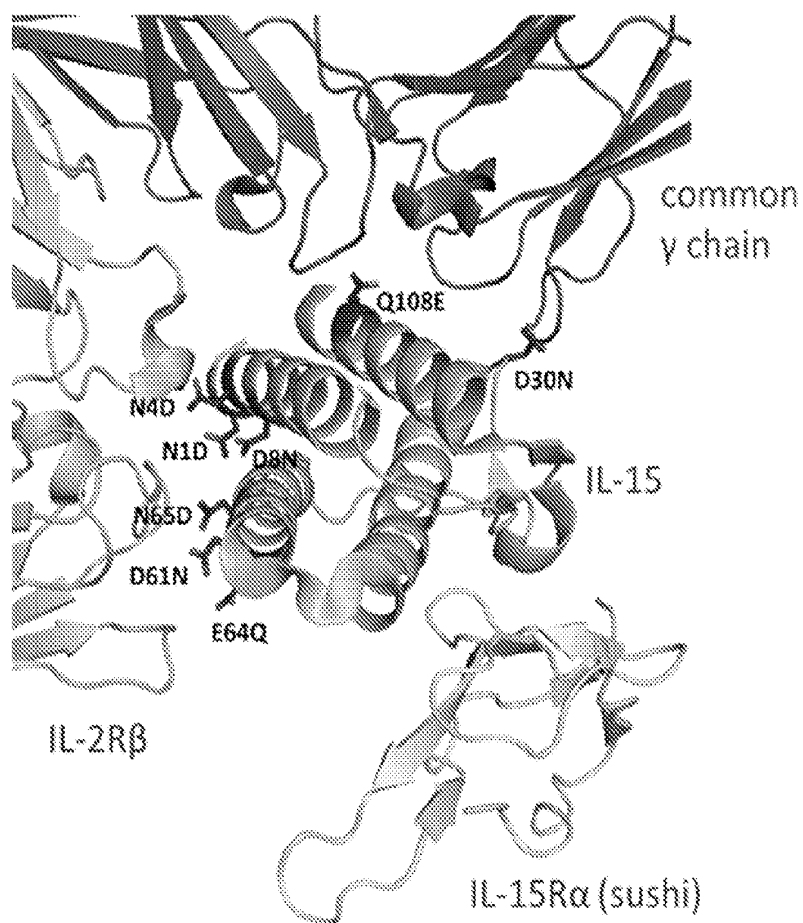


Figure 47A**N1D (SEQ ID NO: 198)**

DWNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

N4D (SEQ ID NO: 199)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

D8N (SEQ ID NO: 200)

NWNVISNLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

D30N (SEQ ID NO: 201)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

D61N (SEQ ID NO: 202)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

E64Q (SEQ ID NO: 203)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESGDASIHDTVQNLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

N65D (SEQ ID NO: 204)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESGDASIHDTVEDLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

Q108E (SEQ ID NO: 205)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

N1D/D61N (SEQ ID NO: 206)

DWNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

N1D/E64Q (SEQ ID NO: 207)

DWNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESGDASIHDTVQNLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

N4D/D61N (SEQ ID NO: 208)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

N4D/E64Q (SEQ ID NO: 209)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESGDASIHDTVQNLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

Figure 47B**D8N/D61N (SEQ ID NO: 210)**

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHNTVENLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

D8N/E64Q (SEQ ID NO: 211)

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVQNLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

D61N/E64Q (SEQ ID NO: 212)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHNTVQNLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

E64Q/Q108E (SEQ ID NO: 213)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVQNLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

N1D/N4D/D8N (SEQ ID NO: 214)

DWVDVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

D61N/E64Q/N65D (SEQ ID NO: 215)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHNTVQDLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

N1D/D61N/E64Q/Q108E (SEQ ID NO: 216)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHNTVQNLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

N4D/D61N/E64Q/Q108E (SEQ ID NO: 217)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHNTVQNLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

N1D/N65D (SEQ ID NO: 218)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

N1D/Q108E (SEQ ID NO: 219)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

N4D/N65D (SEQ ID NO: 220)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

D30N/N65D (SEQ ID NO: 221)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCKVTAMKCFLELQVISLESGDASIHDTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

D30N/Q108E (SEQ ID NO: 222)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

Figure 47C**N65D/Q108E (SEQ ID NO: 223)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

E64Q/N65D (SEQ ID NO: 224)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVQDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

N1D/N4D/N65D (SEQ ID NO: 225)

DWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

D30N/E64Q/N65D (SEQ ID NO: 226)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCKVTAMKCFLELQVISLESGDASIHDTVQDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

N4D/D61N/N65D (SEQ ID NO: 227)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHNTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

Figure 48A

>XENP022821 - human_IL15_N65D (GGGGS)₁-human_IL15Rα(Sushi) (GGGGS)₁_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 - human_IL15_N65D_(GGGGS)₁ (17692) (SEQ ID NOS 228-230)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVEDLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/ EPKSSDKTHTCPPCAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWQQGVFSCSV MHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)_(GGGGS)₁_Fc(216)_IgG1_pl(-)

)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908)
(SEQ ID NOS 231-233)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLSKCIR/ GGGGS/ EPK
SSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGVFSCSV MHEALHNHYTQKSLSLSPGK

>XENP022822 - human_IL15_Q108E (GGGGS)₁-human_IL15Rα(Sushi) (GGGGS)₁_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 - human_IL15_Q108E_(GGGGS)₁ (17693) (SEQ ID NOS 234-236)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVENLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/ GGGGS/ EPKSSDKTHTCPPCAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWQQGVFSCSV MHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)_(GGGGS)₁_Fc(216)_IgG1_pl(-)

)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908)
(SEQ ID NOS 237-239)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLSKCIR/ GGGGS/ EPK
SSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGVFSCSV MHEALHNHYTQKSLSLSPGK

>XENP023554 - human_IL15_N1D/N65D (GGGGS)₁-human_IL15Rα(Sushi) (GGGGS)₁_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 - human_IL15_N1D/N65D_(GGGGS)₁_Fc(216)_IgG1_pl(-)

)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (18783) (SEQ ID NOS 240-242)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVEDLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/ EPKSSDKTHTCPPCAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWQQGVFSCSV MHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)_(GGGGS)₁_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908) (SEQ ID NOS 243-245)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLSKCIR/ GGGGS/ EPK
SSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGVFSCSV MHEALHNHYTQKSLSLSPGK

Figure 48B

>XENP023557 - human IL15 N4D/N65D (GGGGS)1-human IL15Ra(Sushi) (GGGGS)1 Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_N4D/N65D_(GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (18786) (SEQ ID NOS 246-248)
NWVDVLSDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVEDLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDITLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEEQGVFSCSVMEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908) (SEQ ID
NOS 249-251)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDITLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

>XENP023561 human IL15 N65D/Q108E (GGGGS)1-human IL15Ra(Sushi) (GGGGS)1 Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_N65D/Q108E_(GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 252-254)
NWVNVLSDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVEDLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINITS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDITLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEEQGVFSCSVMEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS
255-257)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPKSSDKTHTCP
PCPAPPVAGPSVFLFPPKPKDITLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV
SVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIA
VEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

>XENP024018 human IL15(N65D)-human IL15Ra(Sushi) Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15(N65D)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID
NOS 258-260)
NWVNVLSDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVEDLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDITL
MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
ALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSD
GSFFLYSKLTVDKSRWEEQGVFSCSVMEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 261-263)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCCPPCPAPPVAGPSVFLFPPKPKDITLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

Figure 48C

>XENP024019 - human IL15(Q108E)-human IL15Ra(Sushi) Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15(Q108E)-human_IL15Ra(Sushi)_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (19242) (SEQ ID NOS 264-266)
 NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVENLIILANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYCKVSNK
 ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDS
 GSFFLYSKLTVDKSRWEQGDVFSQSMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (16481) (SEQ ID NOS 267-269)
 ITCPPPMSEVHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKICIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDSGGSFFLYSKLTVDKSRWQQGNVFSQSMHEALHNHYTQKSLSLSPGK

>XENP024045 human IL15 D30N/E64Q/N65D (GGGGG)1-
human IL15Ra(Sushi) (GGGGG)1 Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_D30N/E64Q/N65D_(GGGGG)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 270-272)
 NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCKVTAMKCFLELQVISLESQDASIHDTVQDLIIILANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDSGGSFFLYSKLTVDKSRWEQGDVFSQSMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGG)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 273-275)
 ITCPPPMSEVHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKICIR/GGGGS/EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDSGGSFFLYSKLTVDKSRWQQGNVFSQSMHEALHNHYTQKSLSL
 PGK

>XENP024051 human IL15 N1D/N65D-human IL15Ra(Sushi) Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_N1D/N65D-human_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 276-278)
 DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVEDLIILANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYCKVSNK
 ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDS
 GSFFLYSKLTVDKSRWEQGDVFSQSMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 279-281)
 ITCPPPMSEVHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKICIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDSGGSFFLYSKLTVDKSRWQQGNVFSQSMHEALHNHYTQKSLSLSPGK

Figure 48D

>XENP024052 human IL15 N4D/N65D-human IL15R α (Sushi) Fc(216) IgG1 pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216) IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 – human_IL15_N4D/N65D-human_ Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 282-284)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLES GDASIHDTVEDLIILANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDS
 DGSFFLYSKLTVDKSRWEQGDVFSCSMHEALHNHYTQKSLSLSPGK

Chain 2 – human_IL15R α (Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 285-287)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSMHEALHNHYTQKSLSLSPGK

Figure 49A

>XENP024015 human_IL15Ra(sushi)_(GGGGS)5-human_IL15(Q108E;single-chain)-empty-
Fc Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-
Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

**Chain 1 - human_IL15Ra(sushi)_(GGGGS)5-human_IL15(Q108E;single-chain)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 288-291)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGSGGGG
SGGGSGGGSGGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLESGDAS
IHDTVENLIIILANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS/EPKSSDKTHTCPCPAPP
VAGPSVFLFPPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESD
GQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 292)

EPKSSDKTHTCPCPAPPVAGPSVFLFPPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCVMHEALHNHYTQKSLSLSPGK

>XENP024050 human_IL15Ra(sushi)_(GGGGS)5-human_IL15_N4D/N65D_(single-chain)-empty-
Fc Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-
Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

**Chain 1 - human_IL15Ra(sushi)_(GGGGS)5-human_IL15_N4D/N65D_(single-chain)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 293-296)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGSGGGG
SGGGSGGGSGGGGS/NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLESGDAS
IHDTVEDLIIILANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPCPAPP
VAGPSVFLFPPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESD
GQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 297)

EPKSSDKTHTCPCPAPPVAGPSVFLFPPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCVMHEALHNHYTQKSLSLSPGK

Figure 49B

>XENP024475 human_IL15Ra(sushi)_(GGGGG)6-human_IL15(single-chain;Q108E)-empty-
Fc Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-
Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 - human_IL15Ra(sushi)_(GGGGG)6-human_IL15(single-chain;Q108E)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 298-301)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTCEVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
SGGGSGGGSGGGSGGGSGGGG/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLE
SGDASIHDVTENLII LANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/EPKSSDKTHTCPP
CPAPPVAGPSVFLFPPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVS
VLTVLHQDWLNGKEYCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAV
EWESDQGPPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 302)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLS
SLSPGK

>XENP024476 human_IL15Ra(sushi)_(GGGGG)6-human_IL15(single-chain;N4D/N65D)-empty-
Fc Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-
Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 - human_IL15Ra(sushi)_(GGGGG)6-human_IL15(single-chain;N4D/N65D)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 303-306)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTCEVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
SGGGSGGGSGGGSGGGSGGGG/NWVDVVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLE
SGDASIHDVTEDLII LANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPP
CPAPPVAGPSVFLFPPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVS
VLTVLHQDWLNGKEYCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAV
EWESDQGPPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 307)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLS
SLSPGK

>XENP024478 human_IL15Ra(sushi)_(GGGGG)7-human_IL15(single-chain;Q108E)-empty-
Fc Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-
Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 - human_IL15Ra(sushi)_(GGGGG)7-human_IL15(single-chain;Q108E)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 308-311)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTCEVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
SGGGSGGGSGGGSGGGSGGGG/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQ
VISLES GDASIHDVTENLII LANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/EPKSSDKT
HTCPPCPAPPVAGPSVFLFPPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNST
YRVVSVLTVLHQDWLNGKEYCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
SDIAVEWESDQGPPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 312)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLS
SLSPGK

Figure 49C

>XENP024479 human IL15Ra(sushi) (GGGGS)7-human IL15(single-chain;N4D/N65D)-empty-Fc Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15Ra(sushi)_(GGGGS)7-human_IL15(single-chain;N4D/N65D)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 313-316)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/ GGGSGGGGSGGGSGGGSGGGSGGGSGGGG/NWVDVSDLKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLII LANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVHLQDNLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDQGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - empty-Fc_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 317)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVHLQDNLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

>XENP024481 human IL15Ra(sushi) (30AA linker variant)-human IL15(single-chain;Q108E)-empty-Fc Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15Ra(sushi)_(30AA linker variant)-human_IL15(single-chain;Q108E)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 318-321)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/ DPALVHQRPAPPGGGSGGGSGGGSGGGG/NWVNVI SDLKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVVISLES GDASIHDTVENLII LANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINITS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVHLQDNLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDQGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 322)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVHLQDNLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

Figure 50A

>XENP024349 IL15 Q108E (non-covalent)-human IL15R α (Sushi) empty-Fc Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 – human_IL15R α (Sushi)_ Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 323-325)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 326)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSL
SPGK

Chain 3 – IL15_Q108E_(non-covalent) (SEQ ID NO: 327)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESQDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS

>XENP024890 IL15 N4D/N65D (non-covalent)-human IL15R α (Sushi)-empty-Fc IgG1 Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-IgG1 PVA /S267K/S364K/E357Q

Chain 1 – IL-15_N4D/N65D (SEQ ID NOS 328-330)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 331-333)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 3 – empty_Fc(216)_IgG1_PVA_/S267K/S364K/E357Q (SEQ ID NO: 334)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSL
SPGK

Figure 50B

>XENP25138 IL15_D30N/E64Q/N65D (non-covalent)-empty-Fc Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-IgG1_PVA_/S267K/S364K/E357Q

Chain 1 - IL15_D30N/E64Q/N65D (SEQ ID NO: 335)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCVTAMKCFLELQVISLESGDASIHDTVQDLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 336-338)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEQGDVFSCSMHEALHNHYTQKSLSLSPGK

Chain 3 - empty_Fc(216)_IgG1_PVA_/S267K/S364K/E357Q (SEQ ID NO: 339)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCSMHEALHNHYTQKSLSL
SPGK

Figure 51

>XENP022801 - human_IL15_N65D(non-covalent)-human_IL15Rα(Sushi)**Chain 1 - human_IL15_N65D(non-covalent) (17672) (SEQ ID NO: 340)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLII LANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Rα(Sushi) (17033) (SEQ ID NO: 341)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022802 - human_IL15_Q108E(non-covalent)-human_IL15Rα(Sushi)**Chain 1 - human_IL15_Q108E(non-covalent) (17673) (SEQ ID NO: 342)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVEMFINTS

Chain 2 - human_IL15Rα(Sushi) (17033) (SEQ ID NO: 343)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 52

>XENP024342 human_IL15(non-covalent; Q108E)-human_IL15R α (Sushi) Fc(216)_IgG1_C220S/PVA_/S267K

Chain 1 – human_IL15R α (Sushi) _Fc(216)_IgG1_C220S/PVA_/S267K (SEQ ID NOS 344-346)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVHLQDNLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Chain 2 –human_IL15(non-covalent; Q108E) (SEQ ID NO: 347)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQS FVHIVEMFINTS

Figure 53

>XENP023472 empty-Fc-IL15_N65D/E87C-human_IL15Ra(Sushi-D96/C97)_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 – empty_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NO: 348)

EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGGPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGDVFSCSVMHEALHNHYTQKSLS
LSPGK

Chain 2 - IL15_N65D/E87C (SEQ ID NO: 349)

NWNVNISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLII LANNSLS
SNGNVTESGCKCEELEEKNIKEFLQSFVHIVQMFINTS

Chain 3 - IL15Ra(Sushi-D96/C97)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 350-352)

ITCPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCI RDC/EPKSSDK
THTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFY
PSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSVMHEALHNHYTQKSLSLSPGK

>XENP023473 empty-Fc-IL15_N65D/L52C-human_IL15Ra(Sushi-S40C)_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 – empty_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NO: 353)

EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGGPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGDVFSCSVMHEALHNHYTQKSLS
LSPGK

Chain 2 - IL15_N65D/L52C (SEQ ID NO: 354)

NWNVNISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISCE SGDASIHDTVEDLII LANNSLS
SNGNVTESGCKEELEEKNIKEFLQSFVHIVQMFINTS

Chain 3 - IL15Ra(Sushi-S40C)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 355-357)

ITCPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTPSLKCI R/EPKSSDKTH
TCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSVMHEALHNHYTQKSLSLSPGK

Figure 54A

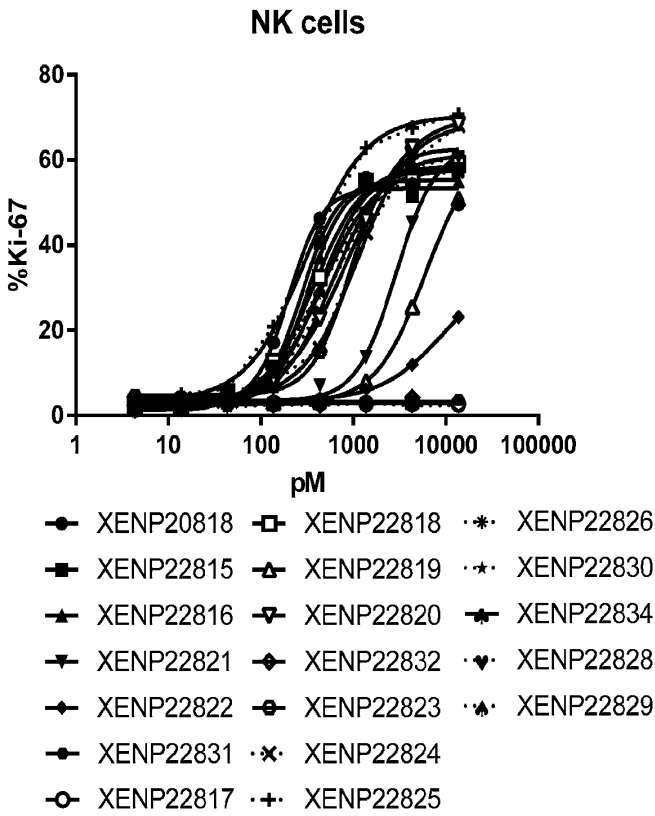


Figure 54B

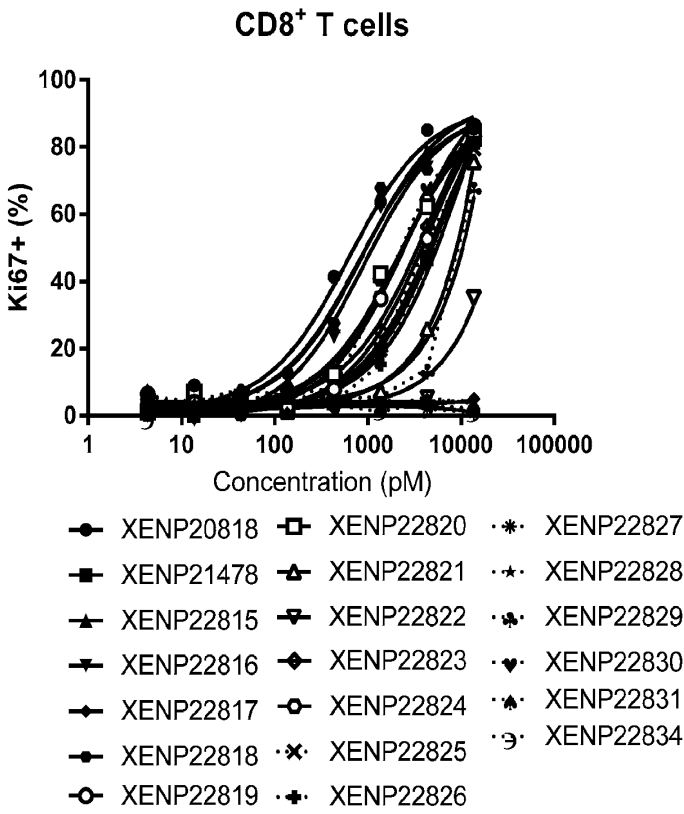


Figure 54C

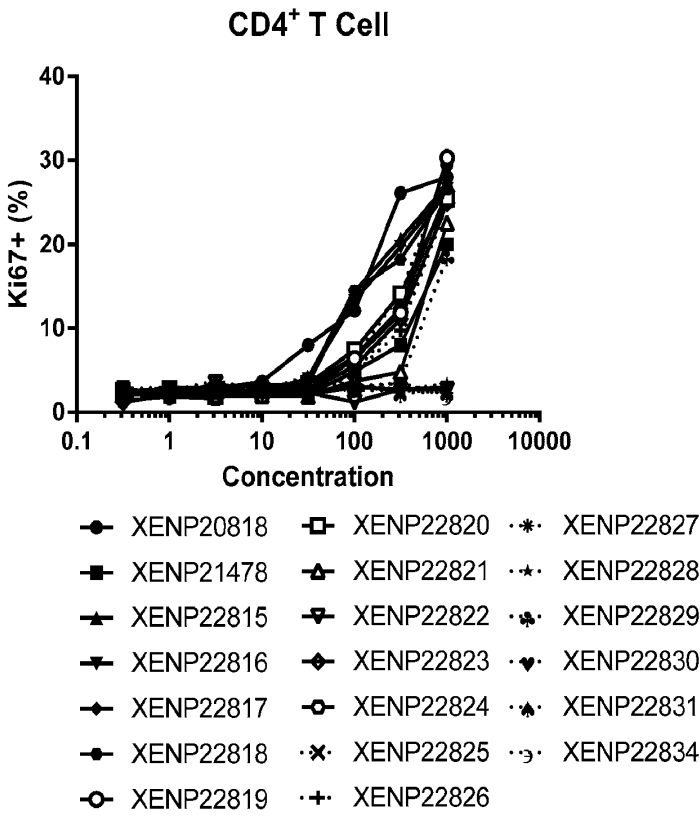


Figure 55

<u>XENP</u>	<u>Variant</u>	<u>EC50 pM</u> <u>(NK cells)</u>	<u>Fold reduced</u> <u>(NK cells)</u>	<u>EC50 pM</u> <u>(CD8 T</u> <u>cells)</u>	<u>Fold</u> <u>reduced</u> <u>(CD8 T cells)</u>
20818	WT	200.6		637.1	
21478	single-chain	848.5	4.2	4982.0	7.8
22815	N1D	281.3	1.4	1051.0	1.6
22816	N4D	321.9	1.6	1190.0	1.9
22817	D8N	very weak	very weak	very weak	very weak
22818	D30N	376.3	1.9	1366.0	2.1
22819	D61N	5934.0	29.6	161937.0	>100
22820	E64Q	877.0	4.4	2858.0	4.5
22821	N65D	2883.0	14.4	6928.0	10.9
22822	Q108E	9777.0	48.7	very weak	>100
22823	N1D/D61N	918.0	4.6	4225.0	6.6
22824	N1D/E64Q	1091.0	5.4	4228.0	6.6
22825	N4D/D61N	309.0	1.5	1070.0	1.7
22826	N4D/E64Q	very weak	very weak	very weak	very weak
22827	D8N/D61N	ND	ND	ND	ND
22828	D8N/E64Q	597.7	3.0	1658.0	2.6
22829	D61N/E64Q	458.2	2.3	2115.0	3.3
22830	E64Q/Q108E	436.6	2.2	1815.0	2.8
22831	N1D/N4D/D8N	very weak	very weak	very weak	very weak
22832	D61N/E64Q/N65D	ND	ND	ND	ND
22833	N1D/D61N/E64Q/Q108E	ND	ND	ND	ND
22834	N4D/D61N/E64Q/Q108E	very weak	very weak	very weak	very weak

Figure 56A

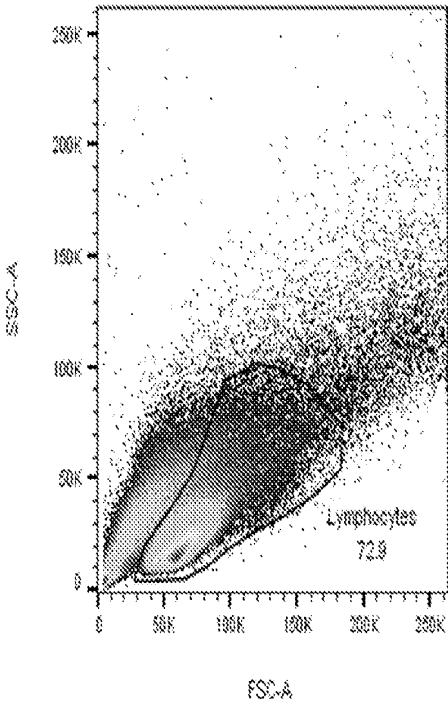


Figure 56B

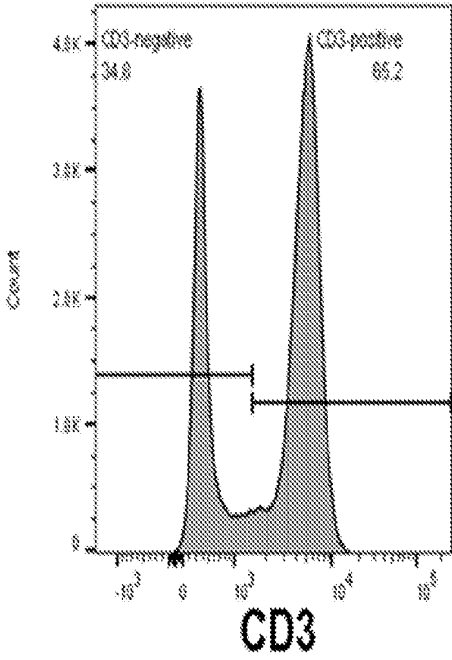


Figure 56C

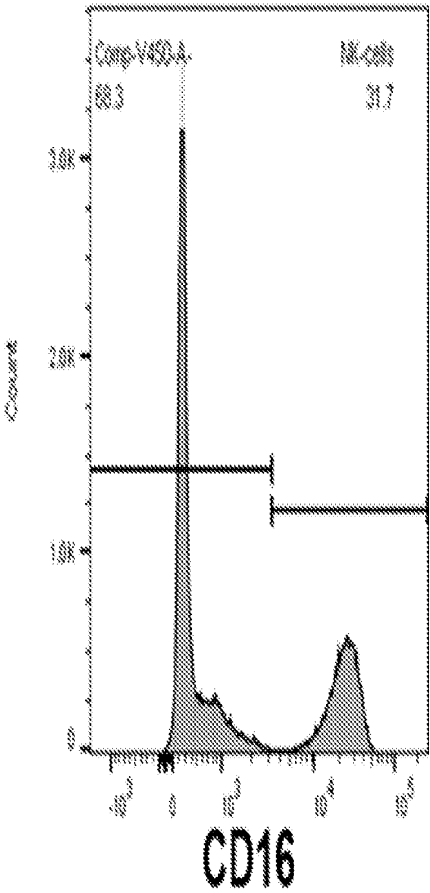


Figure 57A

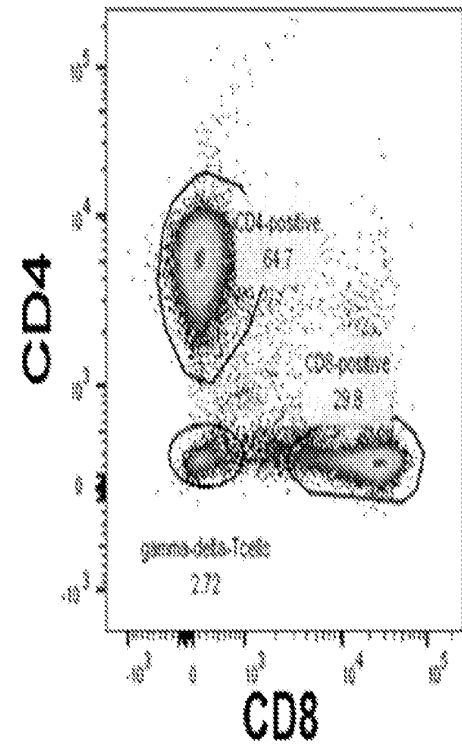


Figure 57B

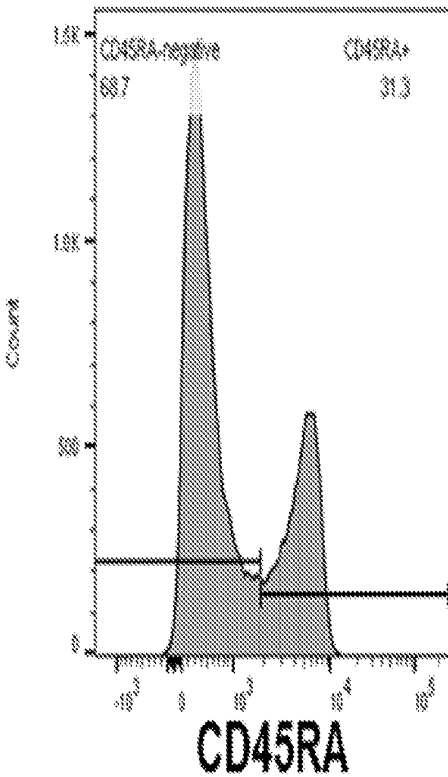


Figure 57C

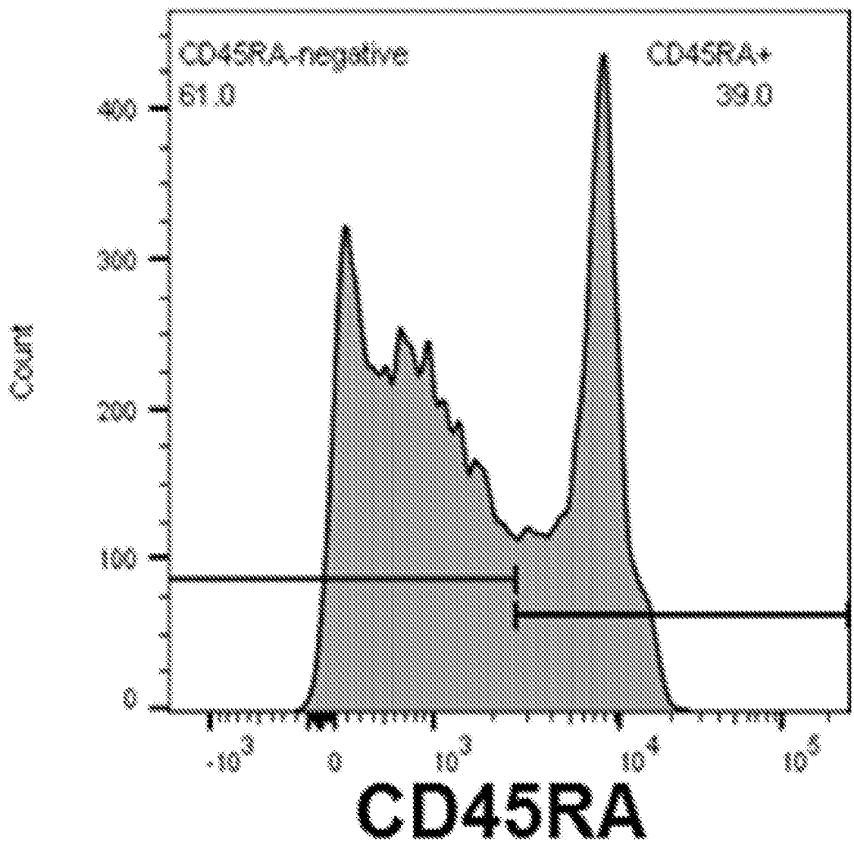


Figure 58A

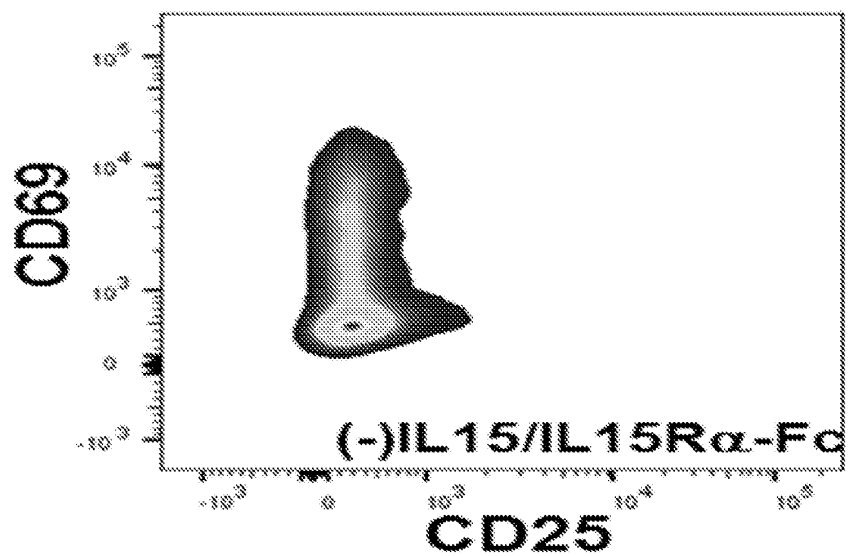


Figure 58B

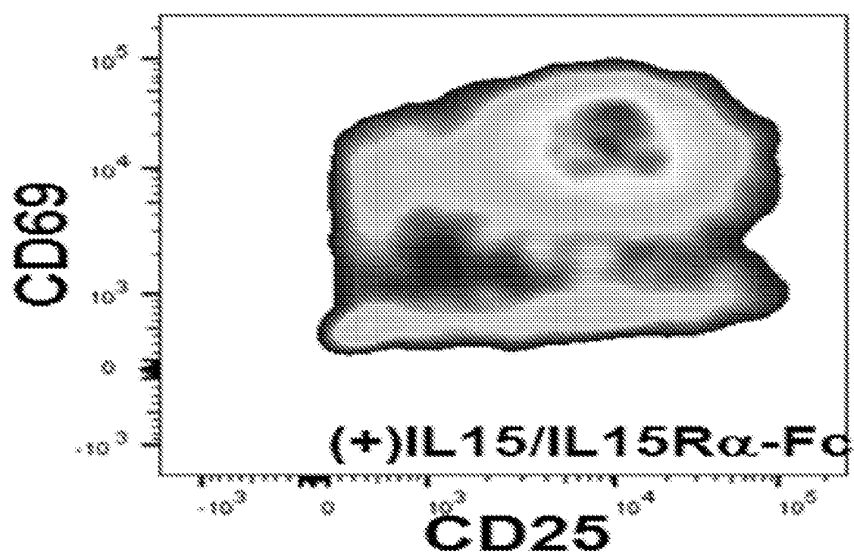


Figure 59A

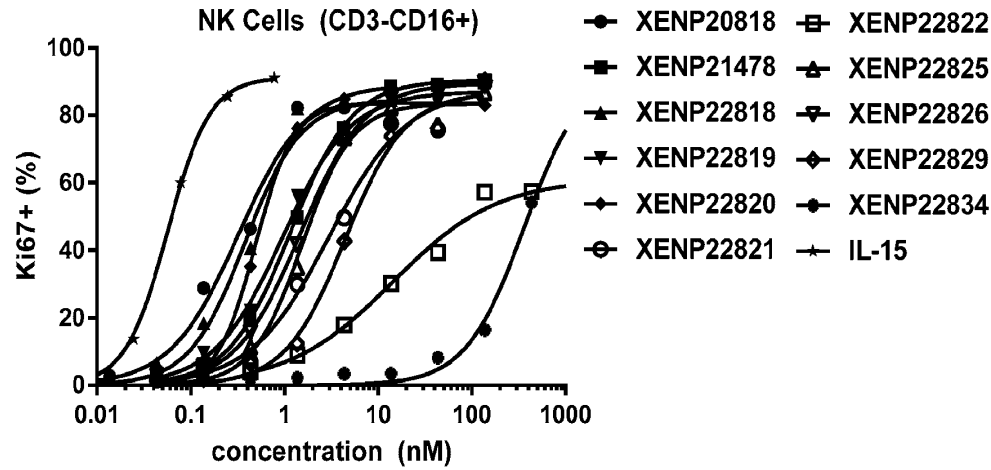
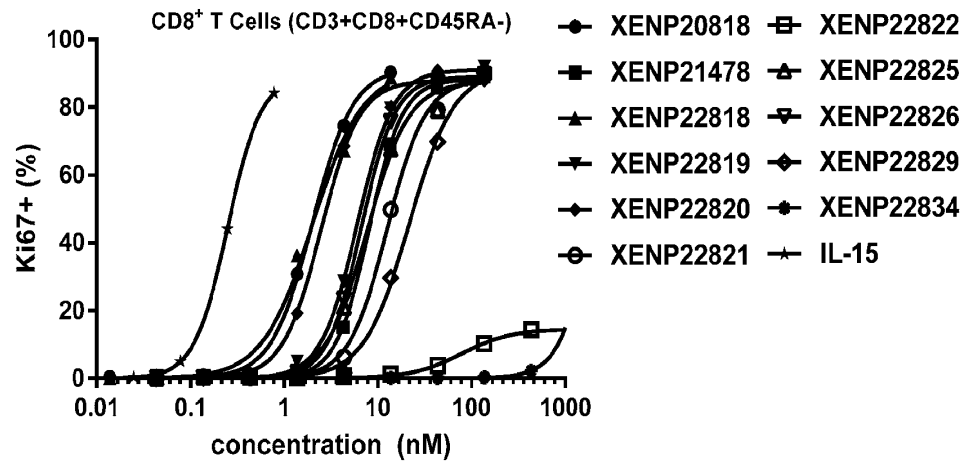


Figure 59B



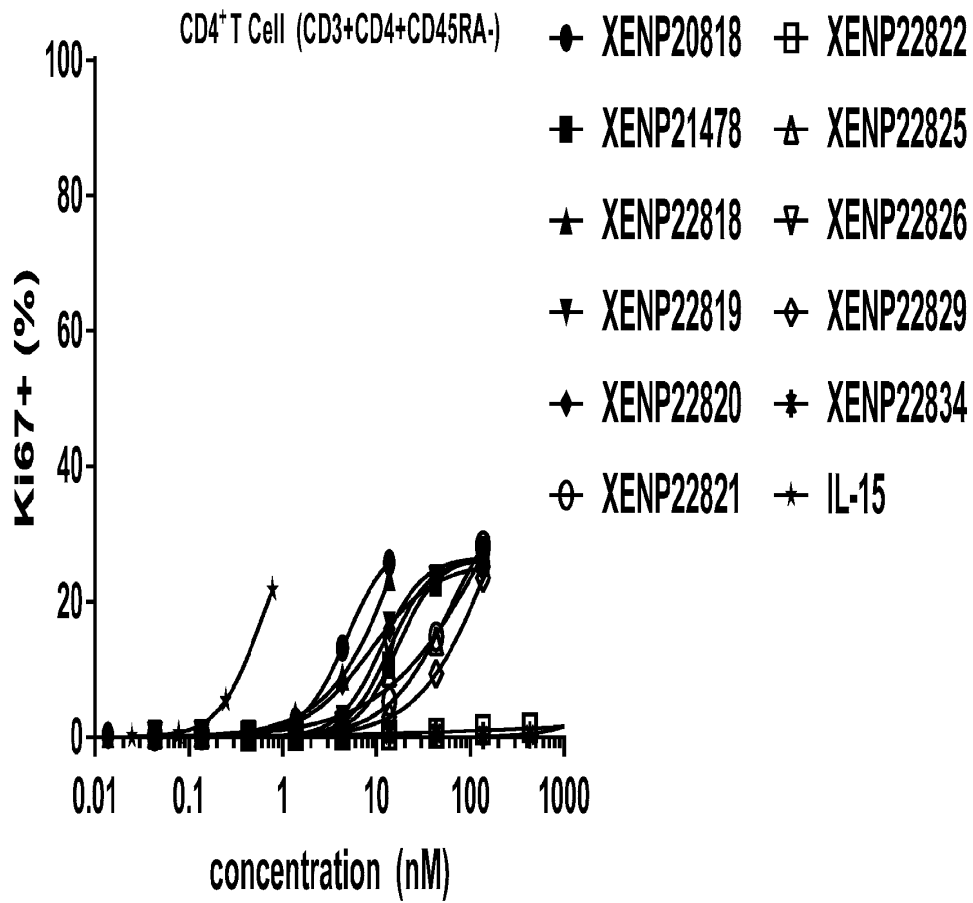


Figure 59D

XENP	EC50 nM (NK cells)	Fold reduced (NK cells)	EC50 nM (CD8 T cells)	Fold reduced (CD8 T cells)	EC50 nM (CD4 T cells)	Fold reduced (CD4 T cells)
20818	0.3223	1.0	2.701	1.0	16.467	1.0
21478	1.116	3.5	11.728	4.3	28.349	1.7
22818	0.4205	1.3	2.829	1.0	40.676	2.5
22819	1.016	3.2	8.254	3.1	18.101	1.1
22820	0.562	1.7	3.918	1.5	10.362	0.6
22821	3.14	9.7	18.706	6.9	112.823	6.9
22822	68.866	213.7	6439.69	2384.2	48.738	3.0
22825	1.769	5.5	12.09	4.5	60.081	3.6
22826	1.448	4.5	9.678	3.6	22.41	1.4
22829	4.839	15.0	29.638	11.0	337.571	20.5
22834	331.293	1027.9	4107.897	1520.9	ND	ND
IL-15	0.05322	0.2	0.3452	0.1	ND	ND

Figure 60A

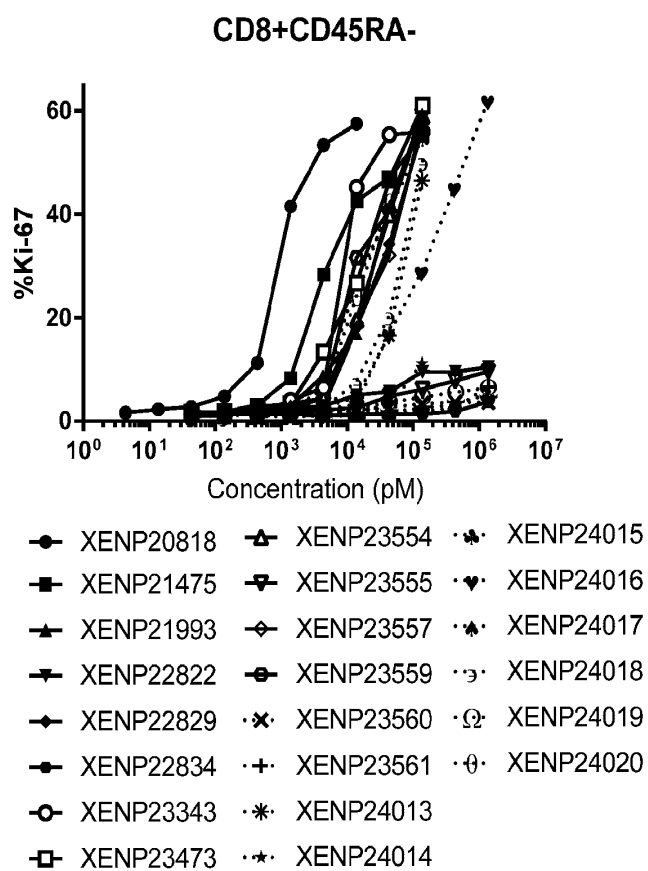


Figure 60B

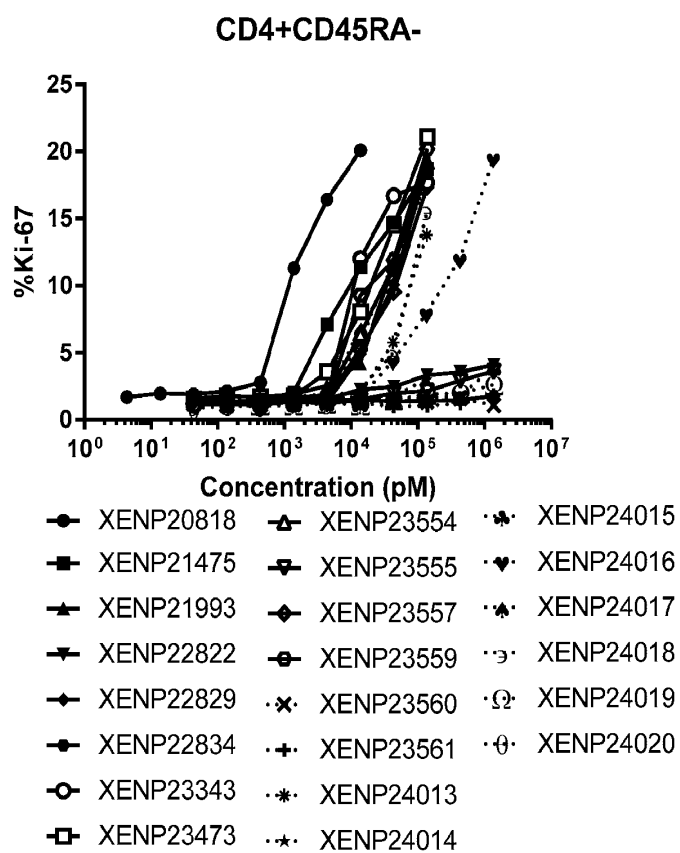


Figure 60C

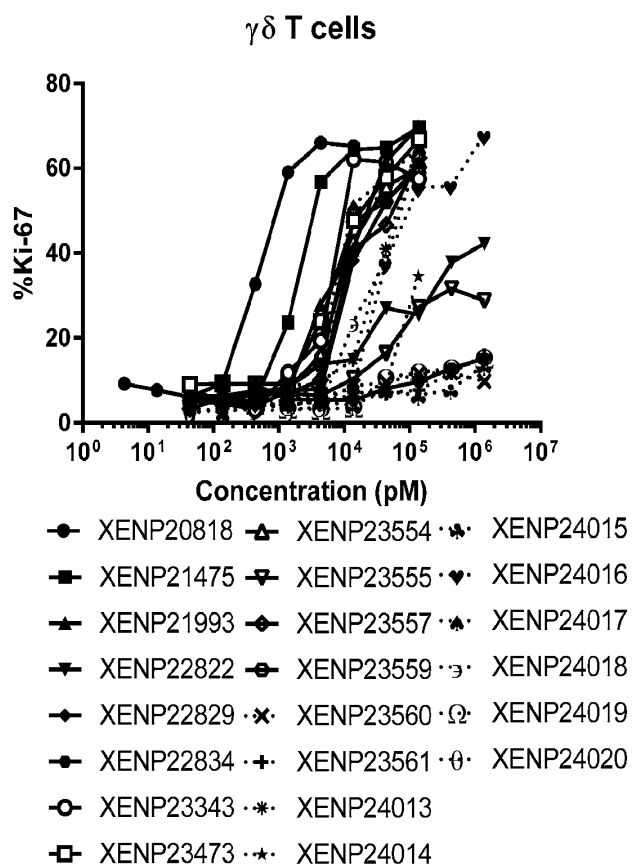


Figure 60D

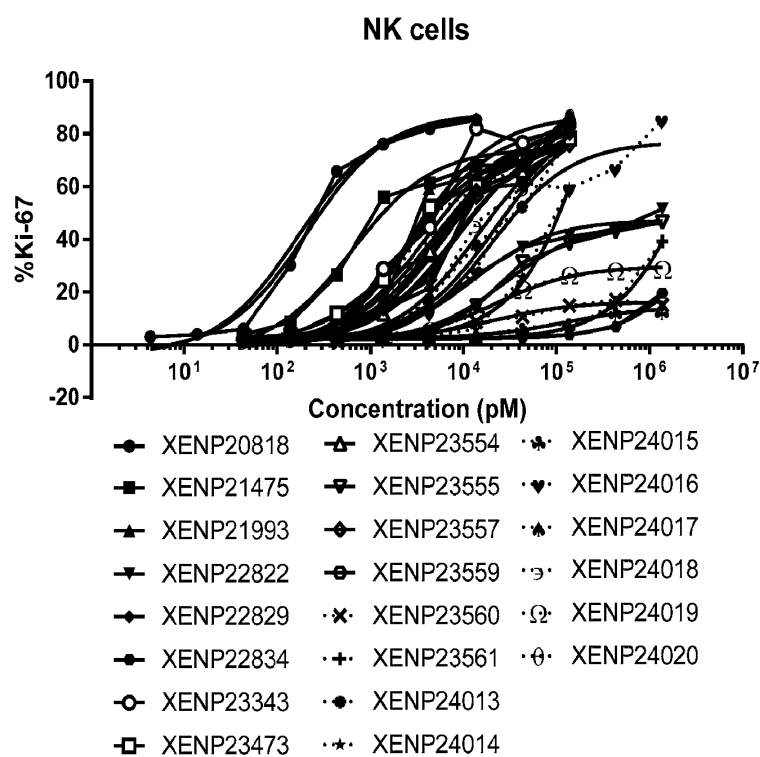


Figure 61A

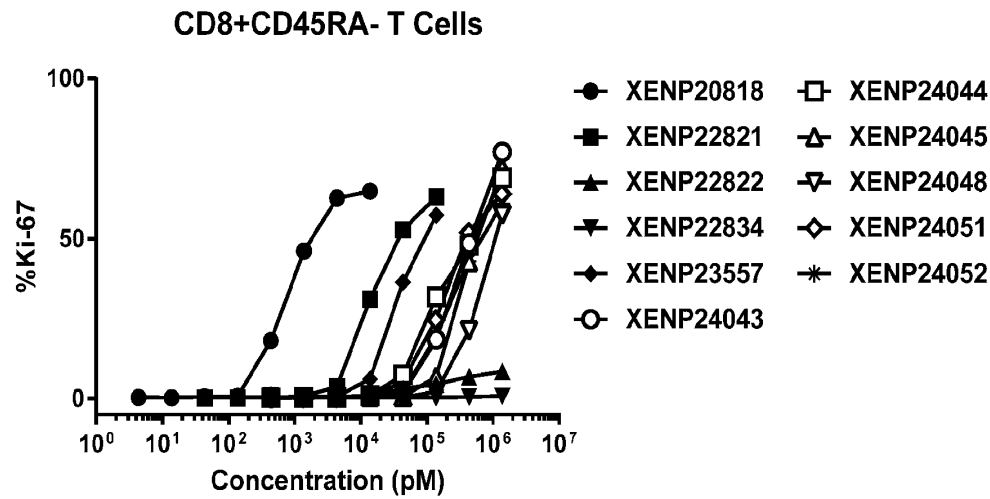


Figure 61B

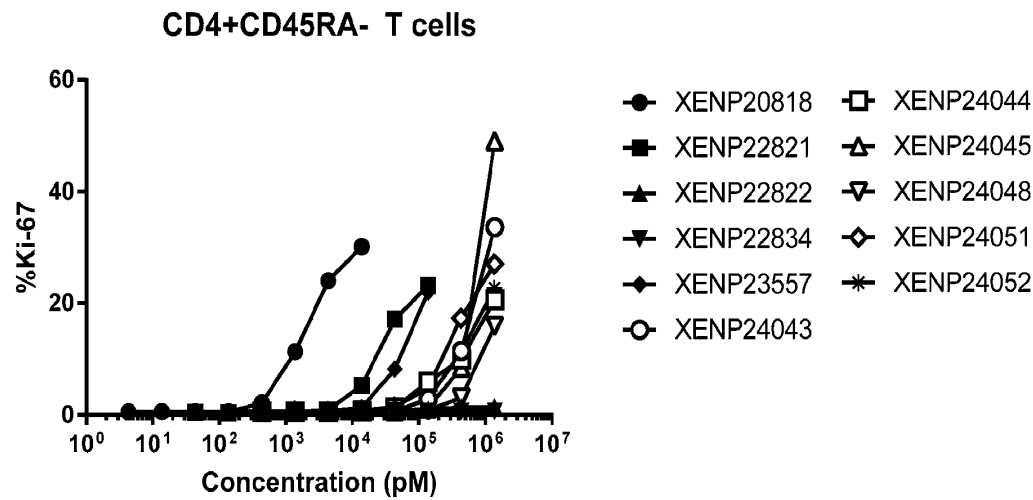


Figure 61C

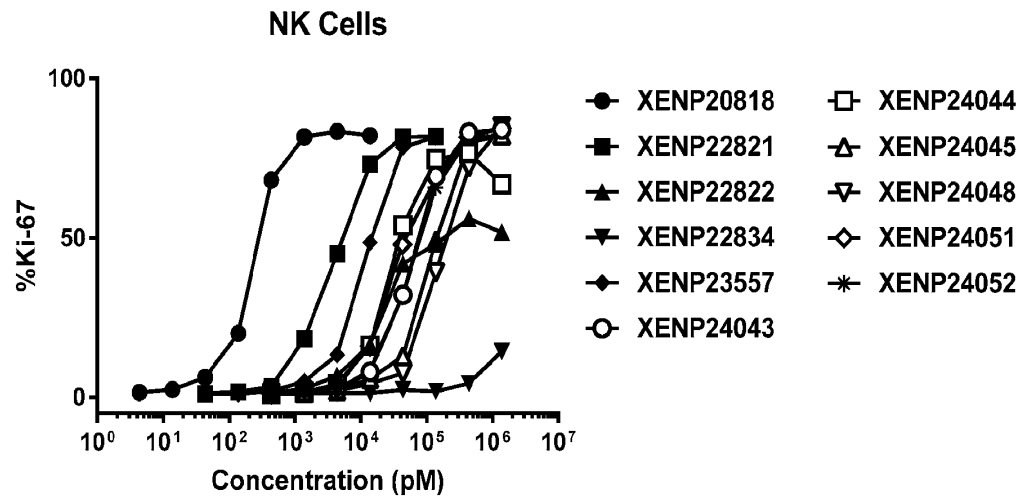


Figure 62A

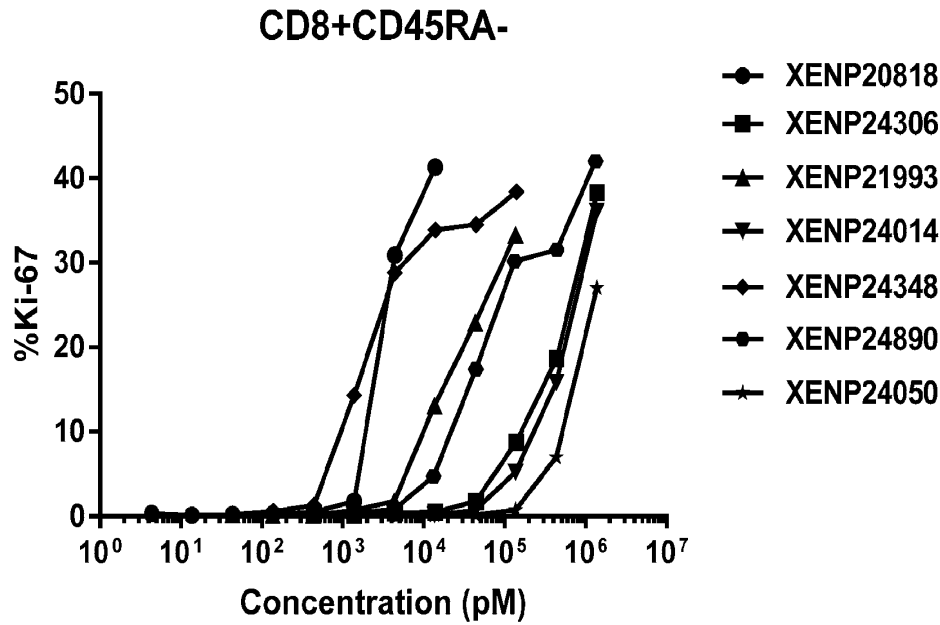


Figure 62B

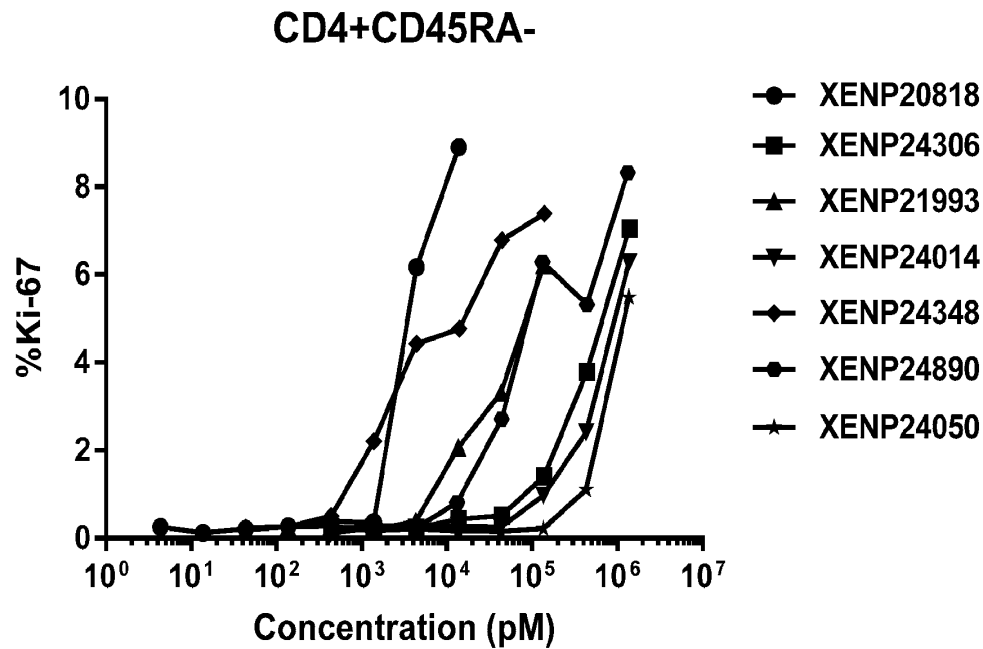


Figure 62C

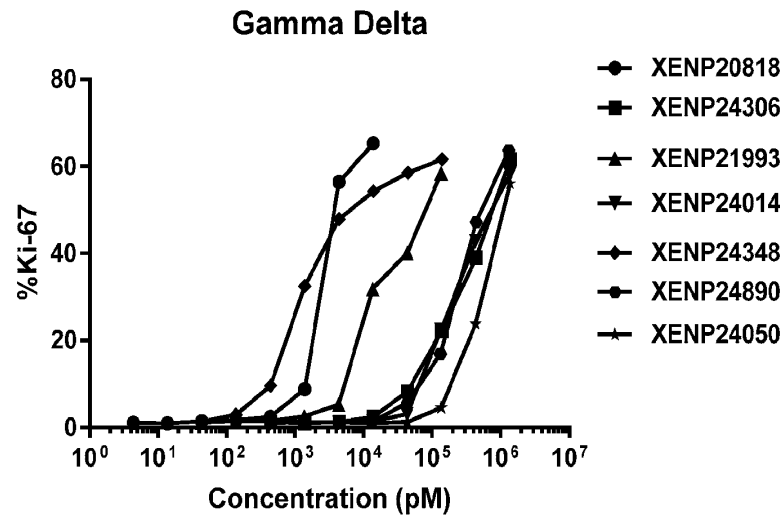


Figure 62D

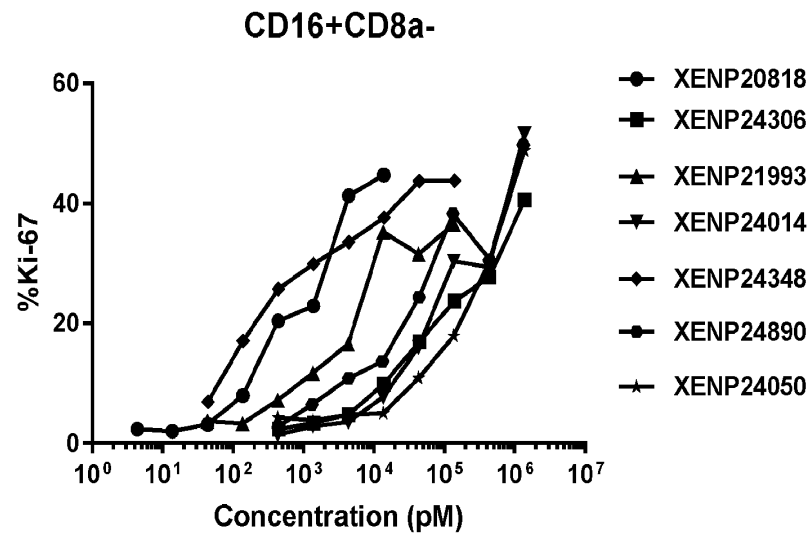


Figure 62E

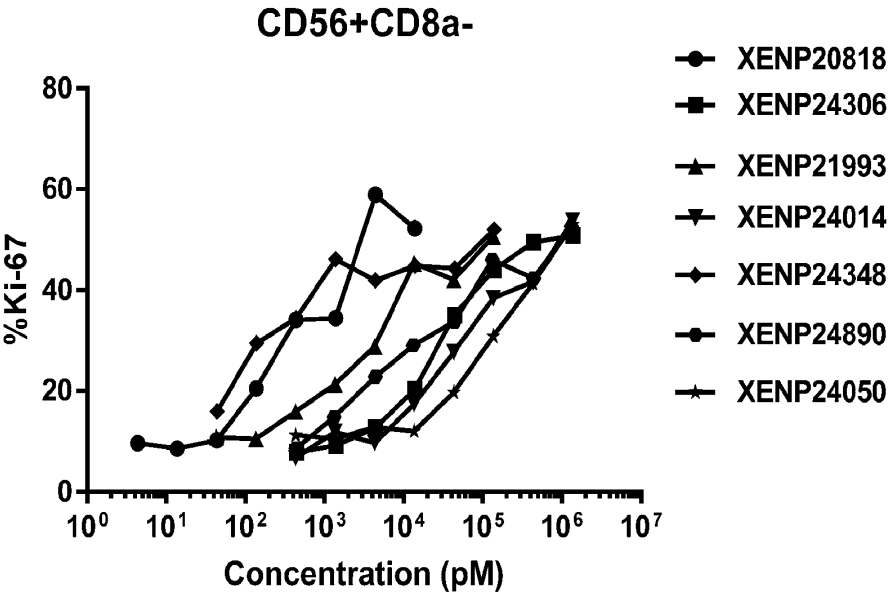


Figure 63A

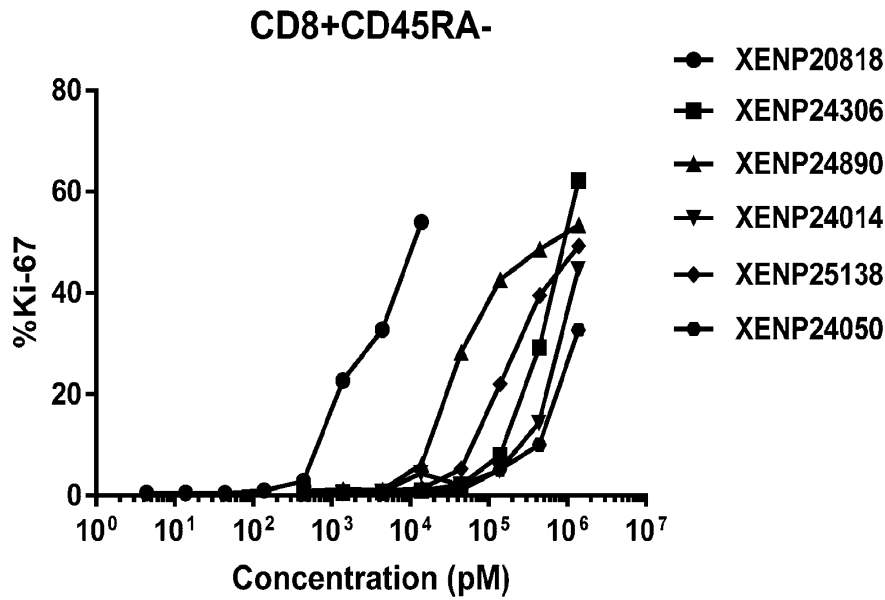


Figure 63B

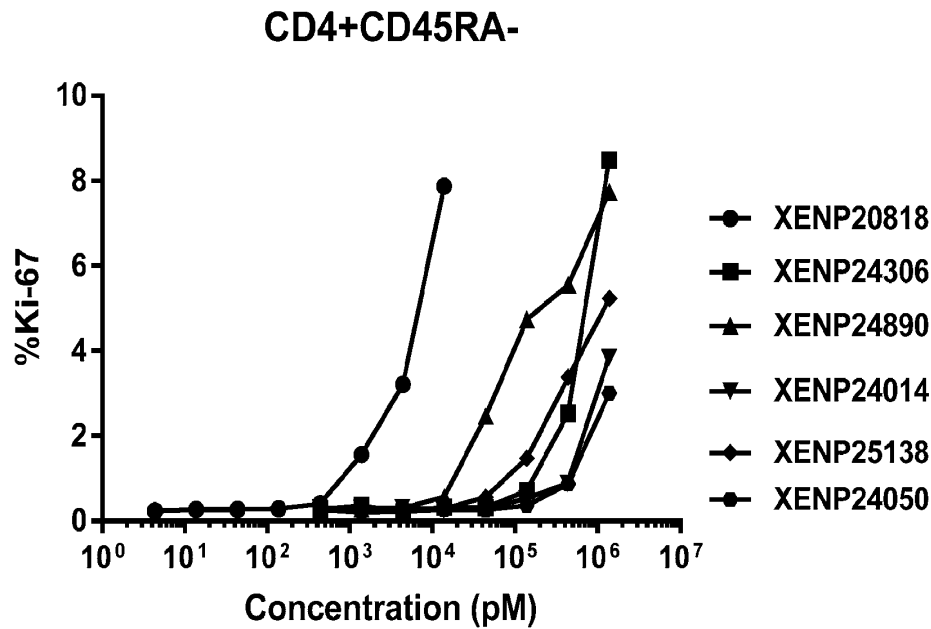


Figure 63C

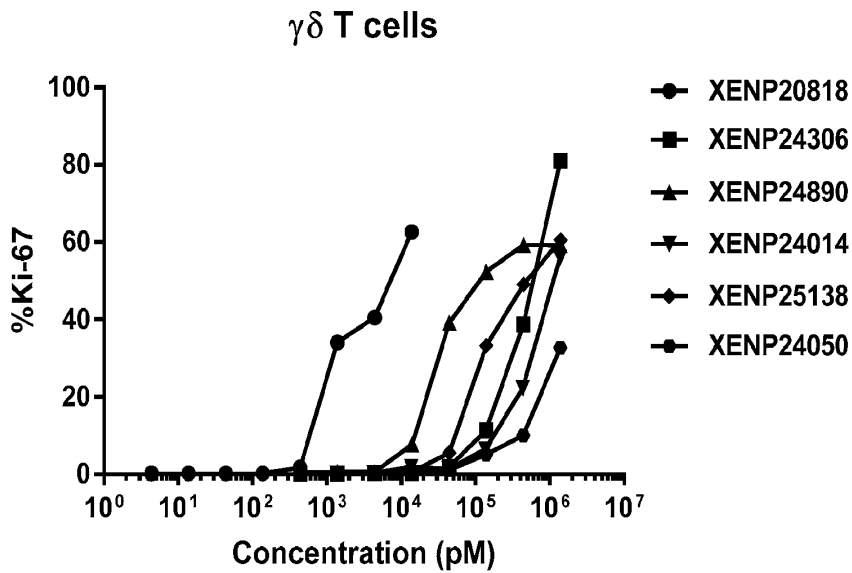


Figure 63D

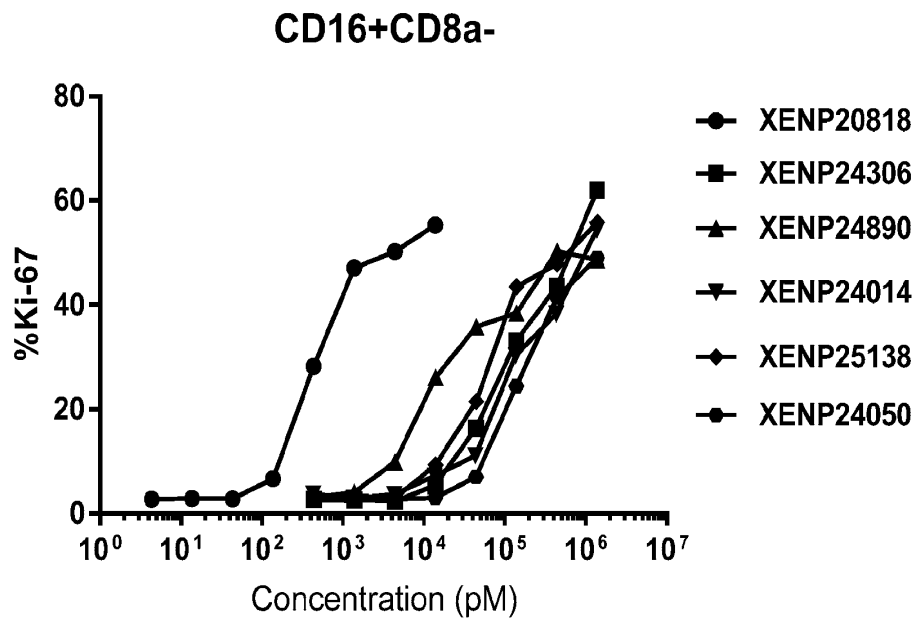


Figure 63E

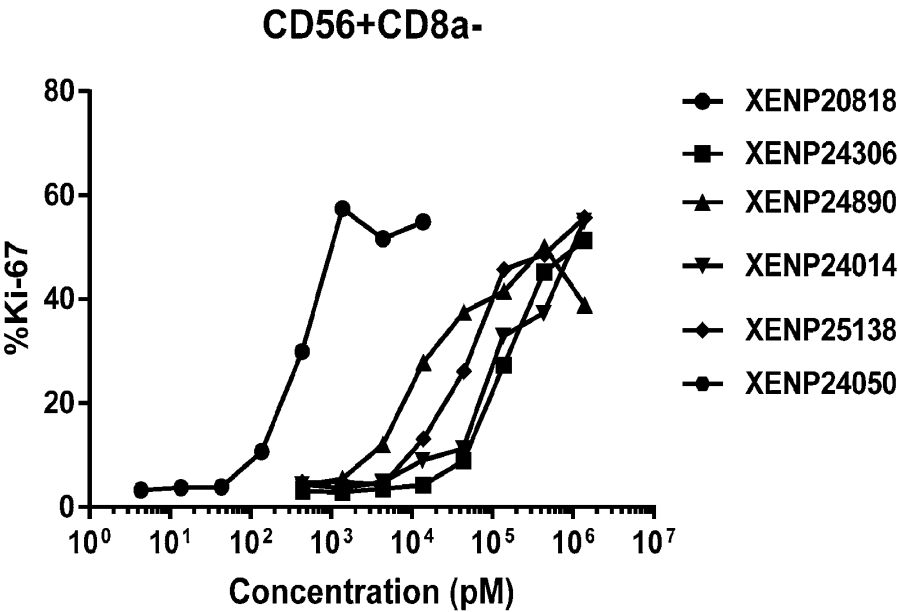
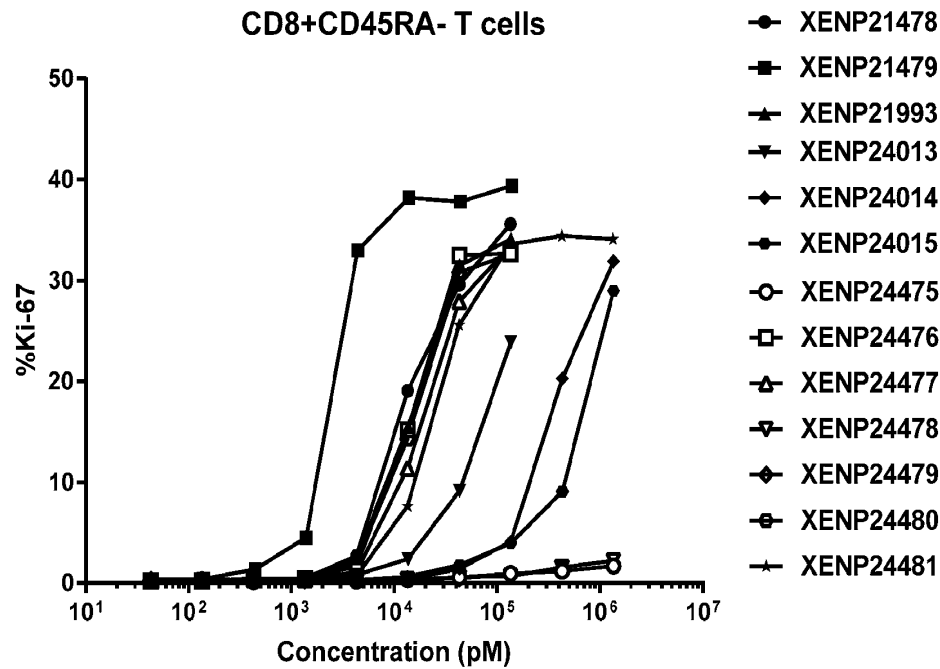


Figure 64A



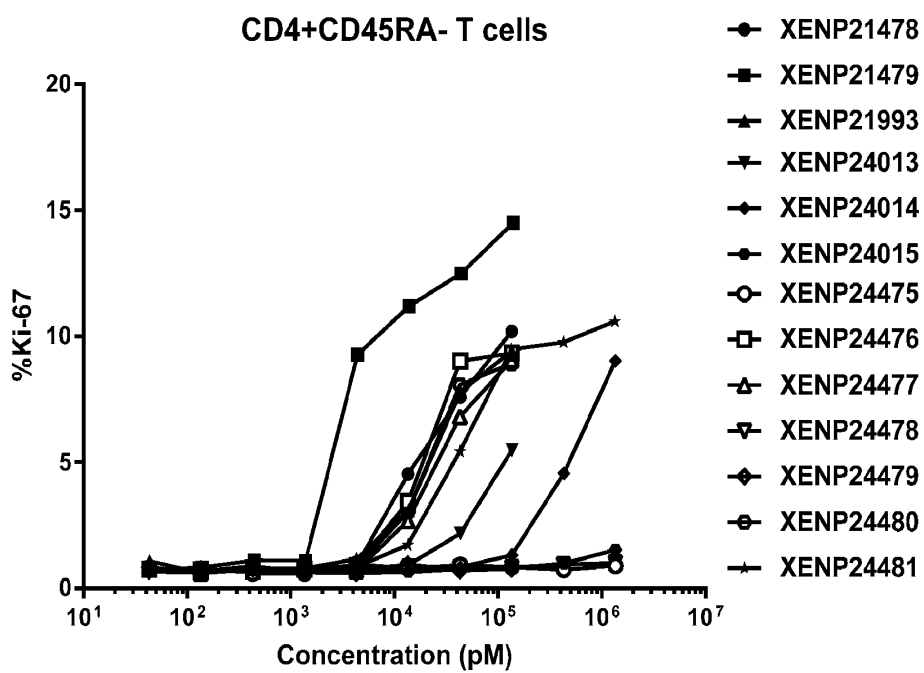


Figure 64C

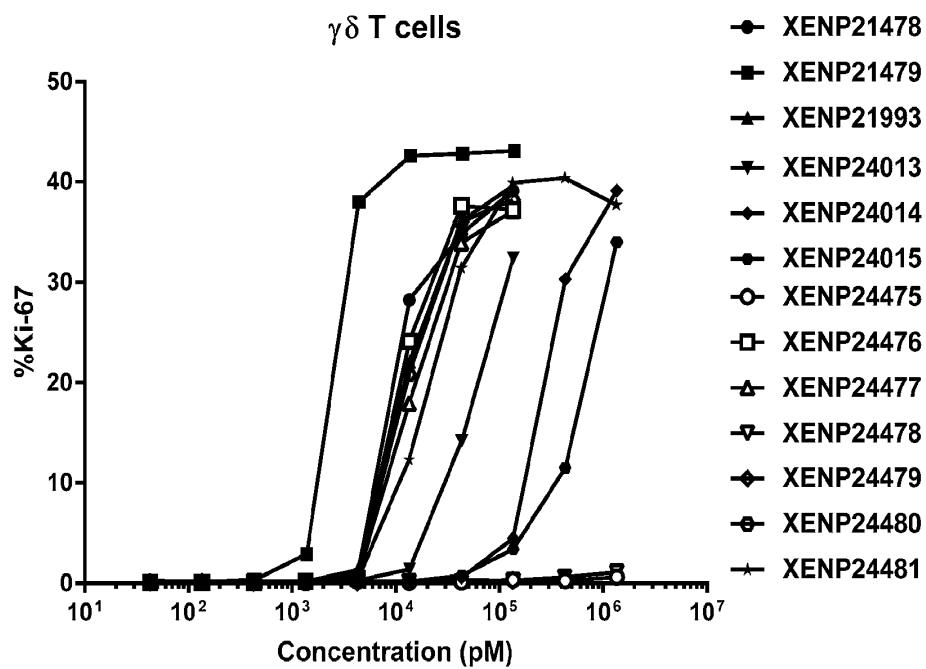


Figure 64D

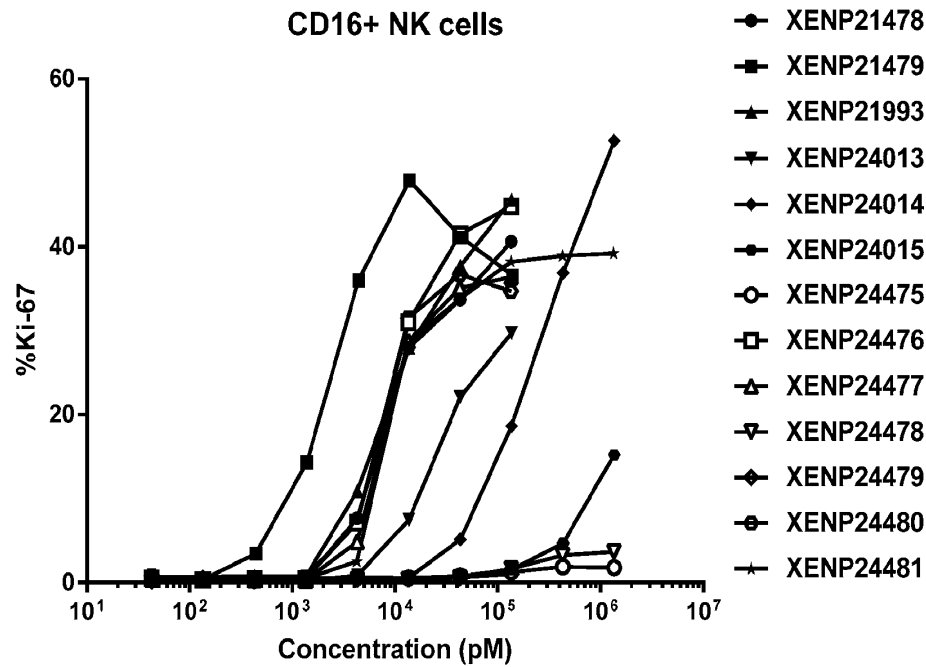


Figure 65A

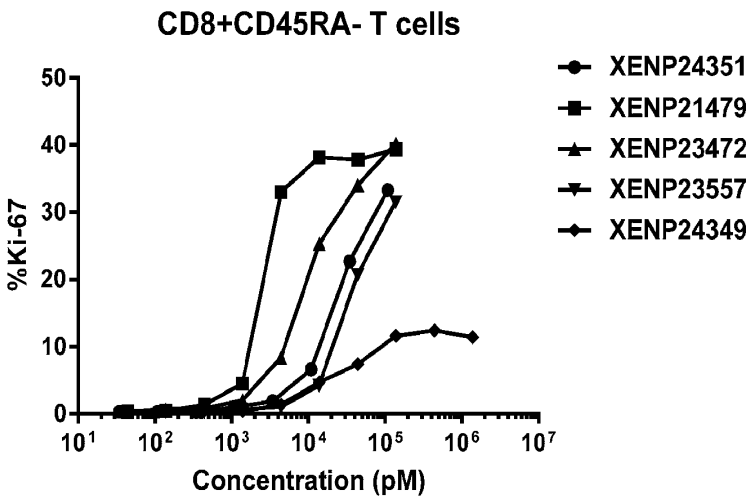


Figure 65B

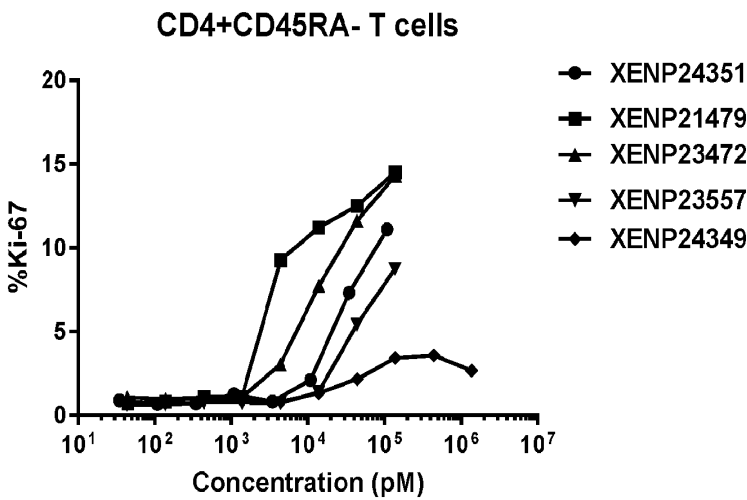


Figure 65C

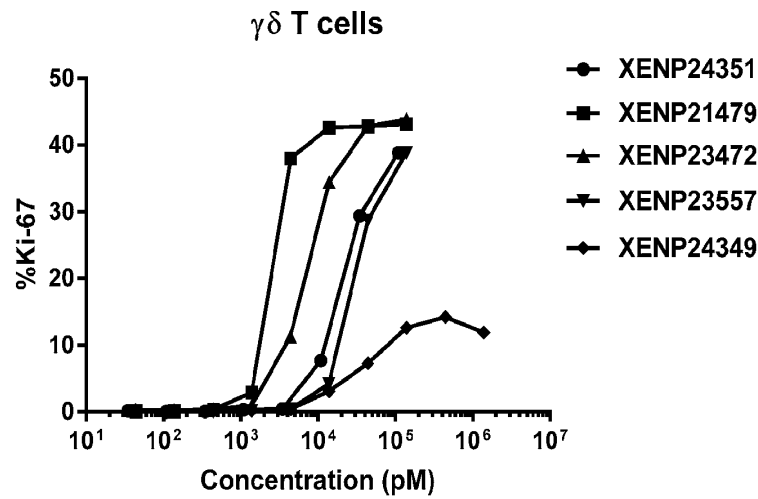


Figure 65D

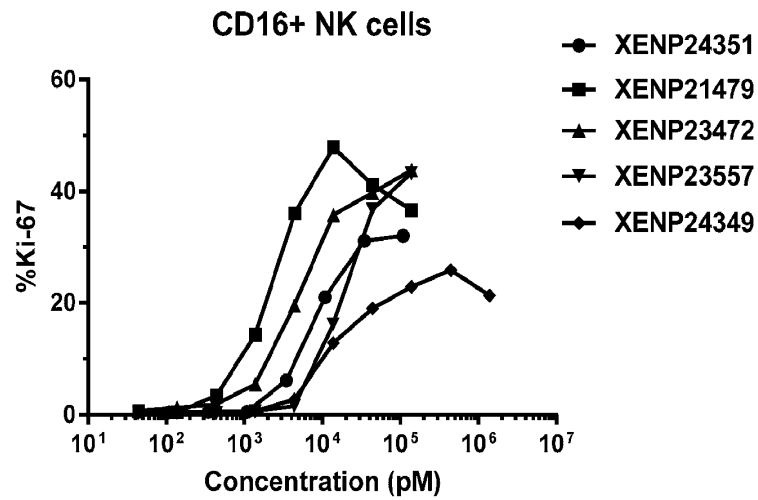


Figure 66A

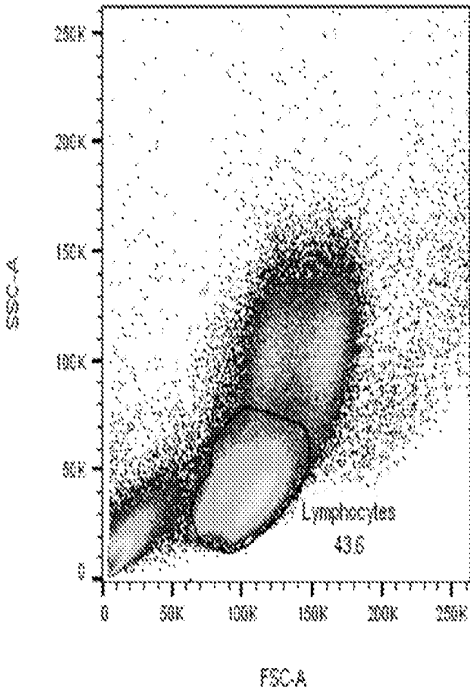


Figure 66B

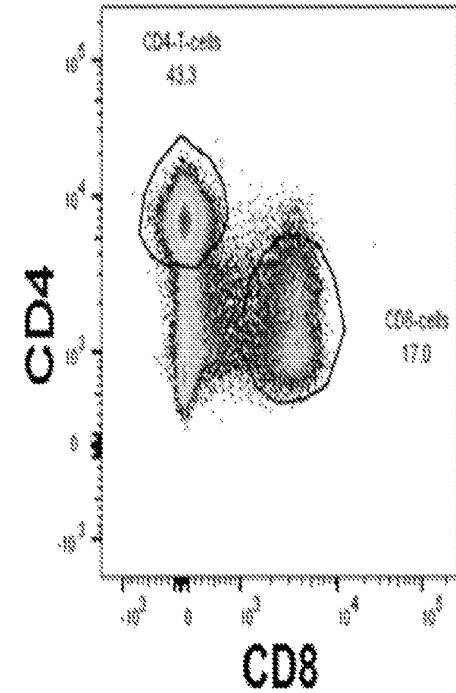


Figure 66C

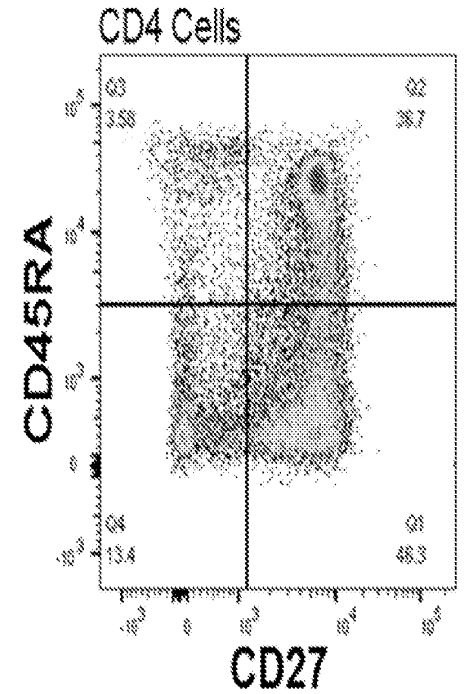


Figure 66D

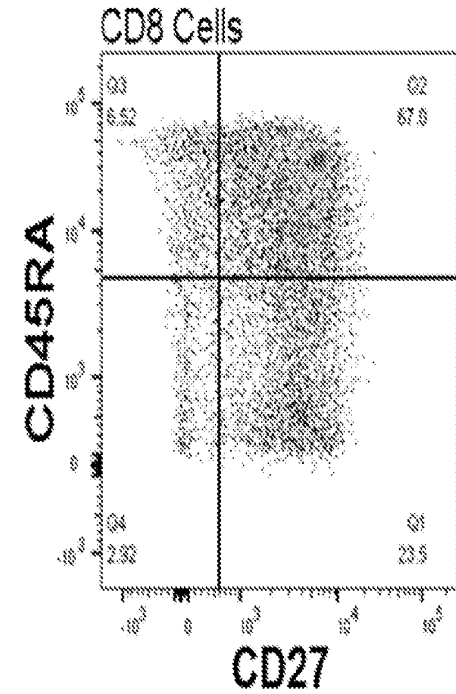


Figure 67A

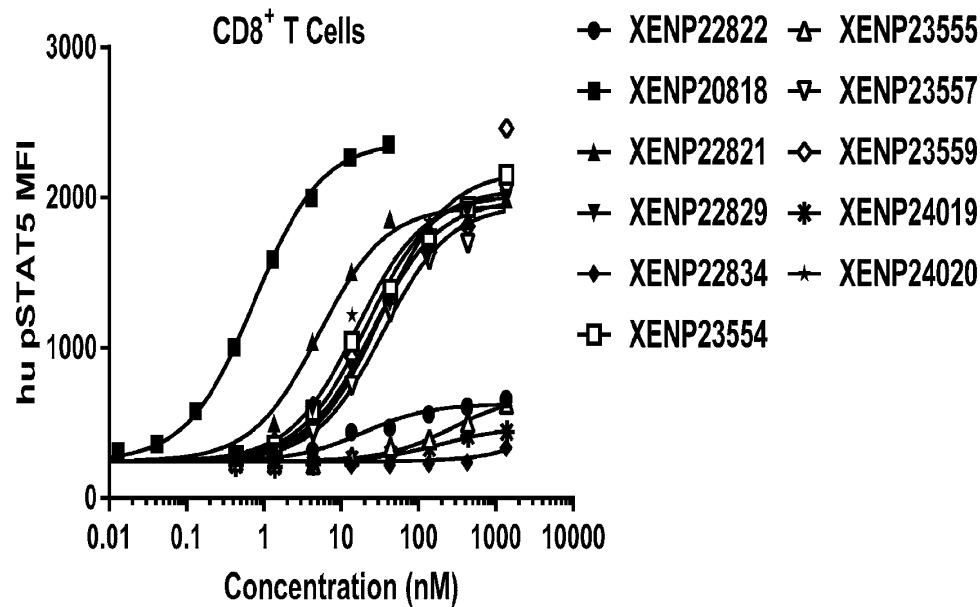


Figure 67B

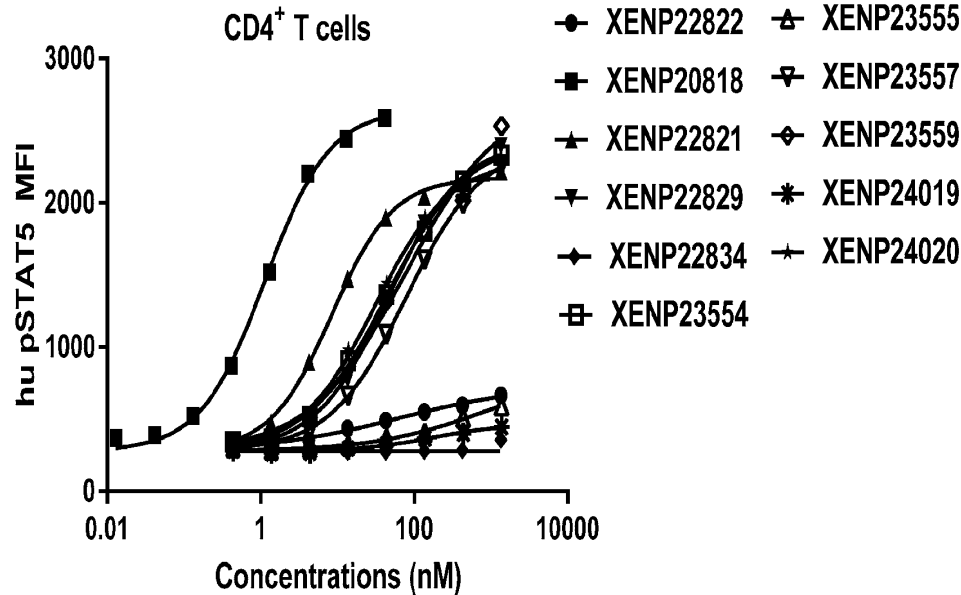


Figure 67C

XENP	EC50 nM (CD8 T cells)	Fold reduced (CD8 T cells)	EC50 nM (CD4 T cells)	Fold reduced (CD4 T cells)
22822	19.34	25.6	61.46	53.8
20818	0.7543	1.0	1.142	1.0
22821	5.196	6.9	8.485	7.4
22829	25.27	33.5	47.11	41.3
22834	ND	ND	ND	ND
23554	21.56	28.6	44.18	38.7
23555	270	357.9	818.2	716.5
23557	34.27	45.4	78.62	68.8
23559	32.91	43.6	76.03	66.6
24019	198.1	262.6	176.7	154.7
24020	15.92	21.1	30.98	27.1

Figure 68

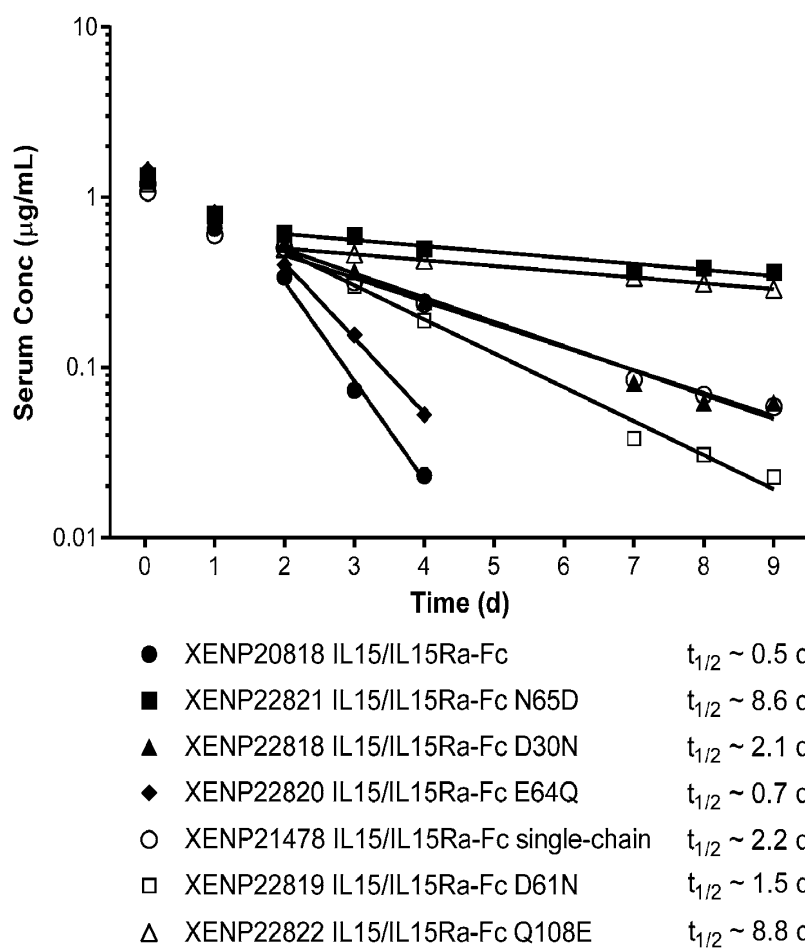


Figure 69

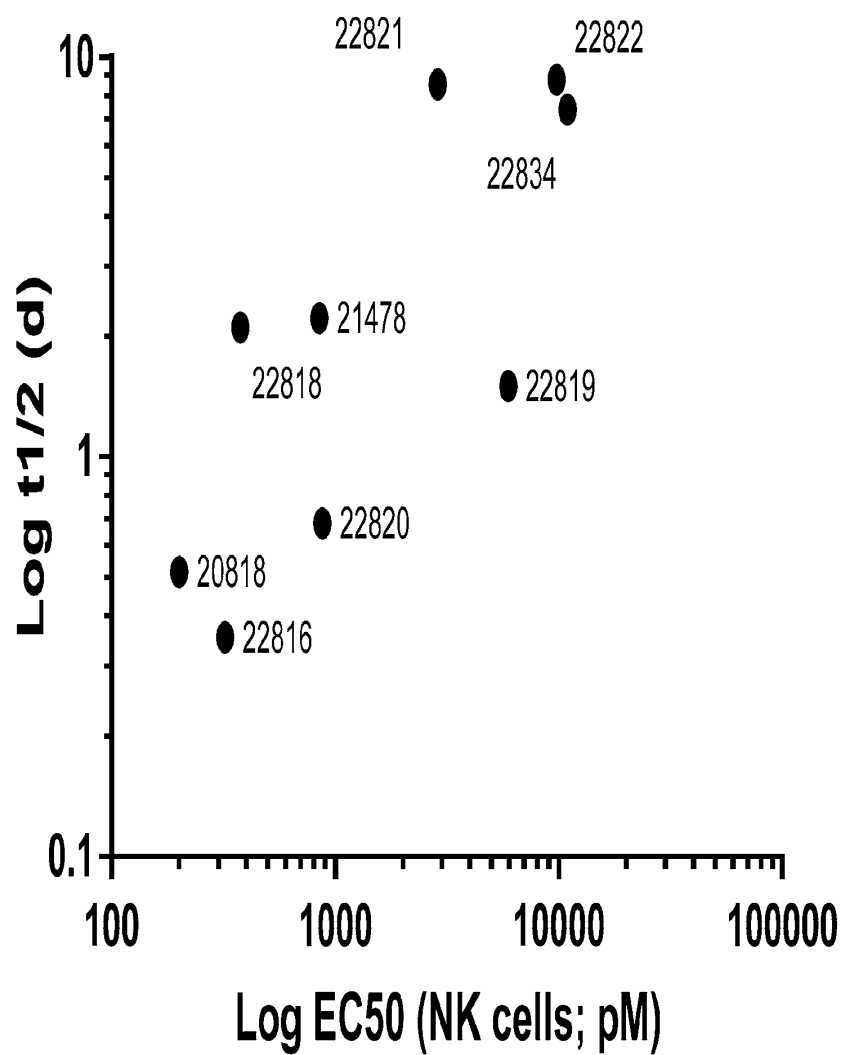


Figure 70

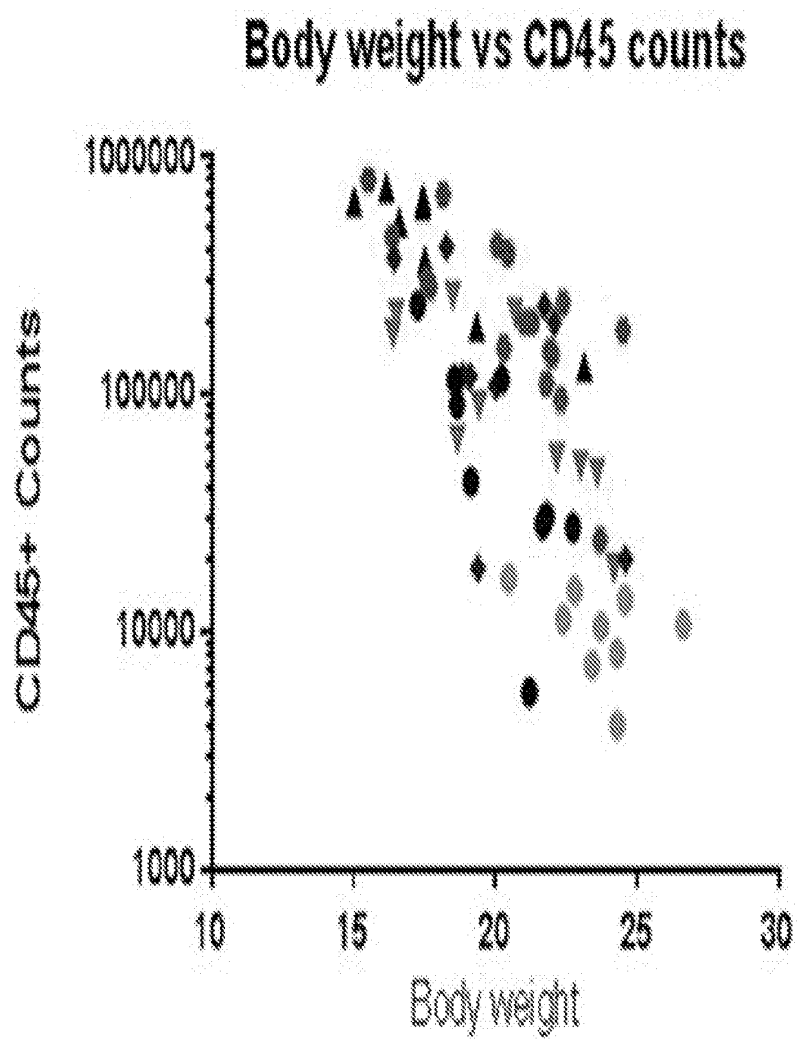


Figure 71A

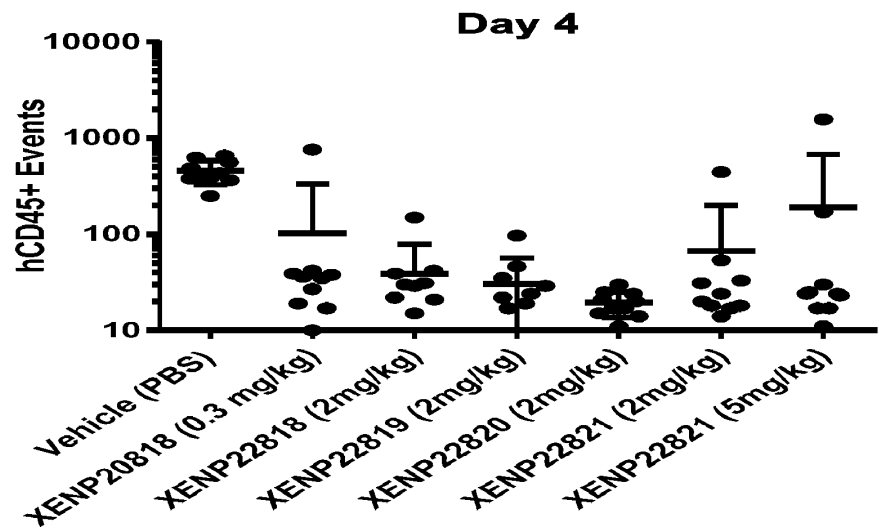


Figure 71B

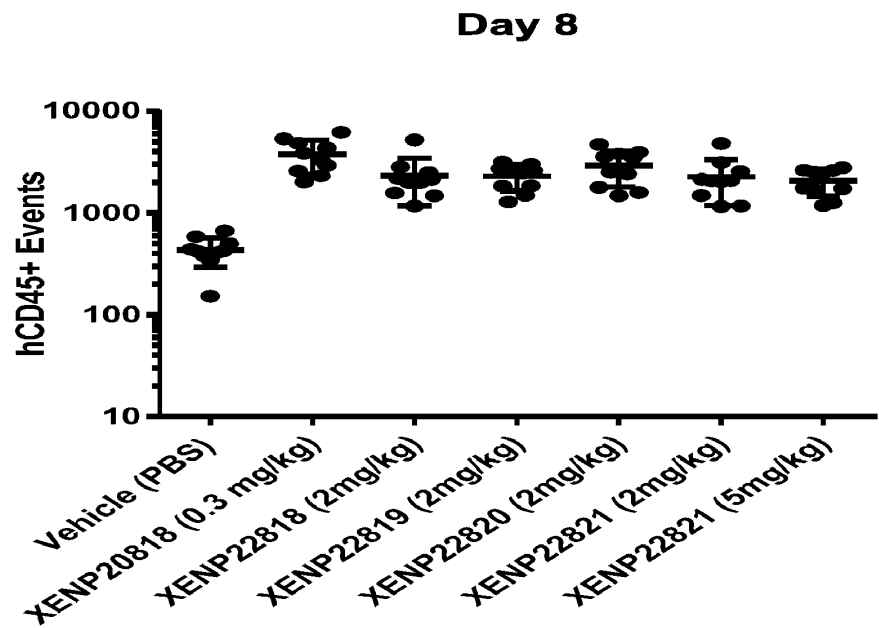


Figure 72A

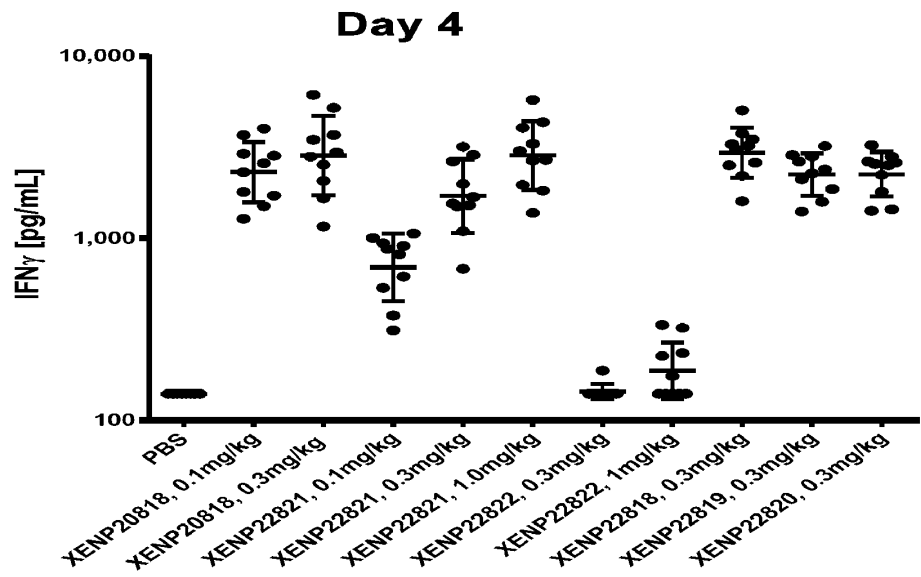


Figure 72B

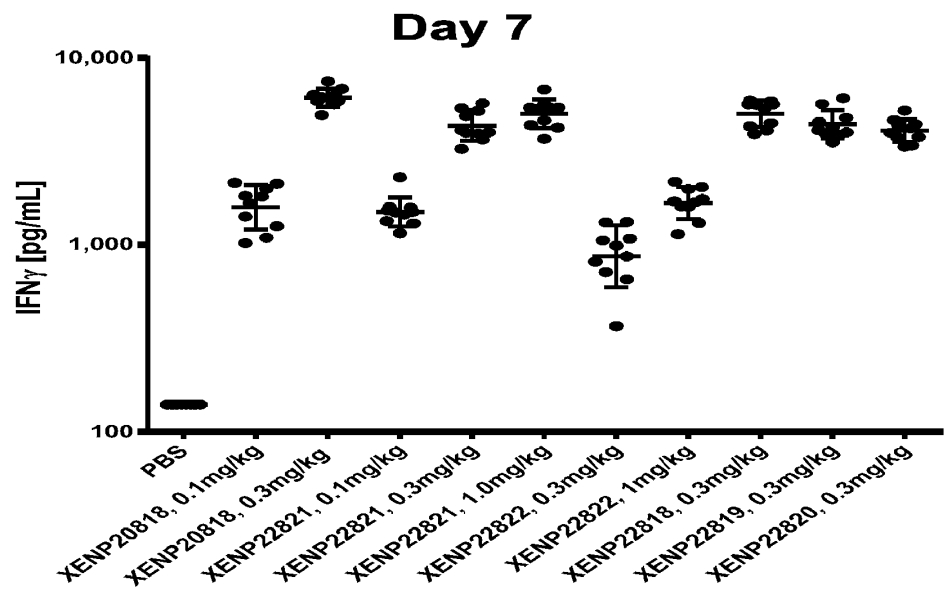


Figure 72C

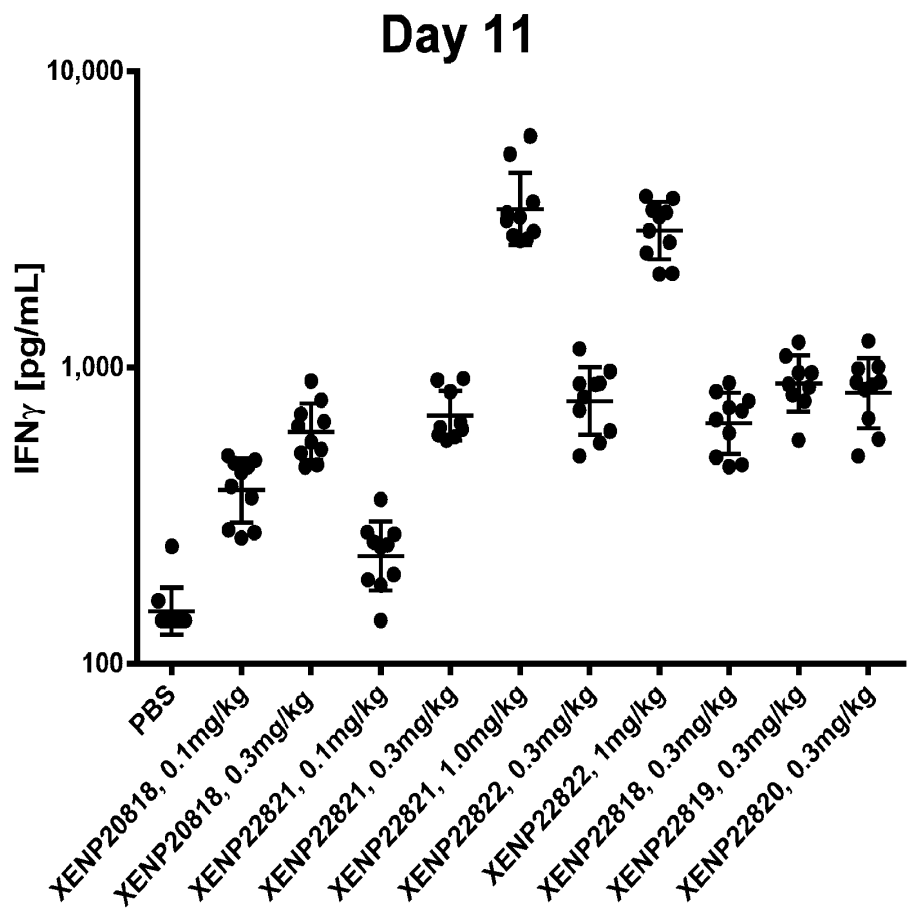


Figure 73A

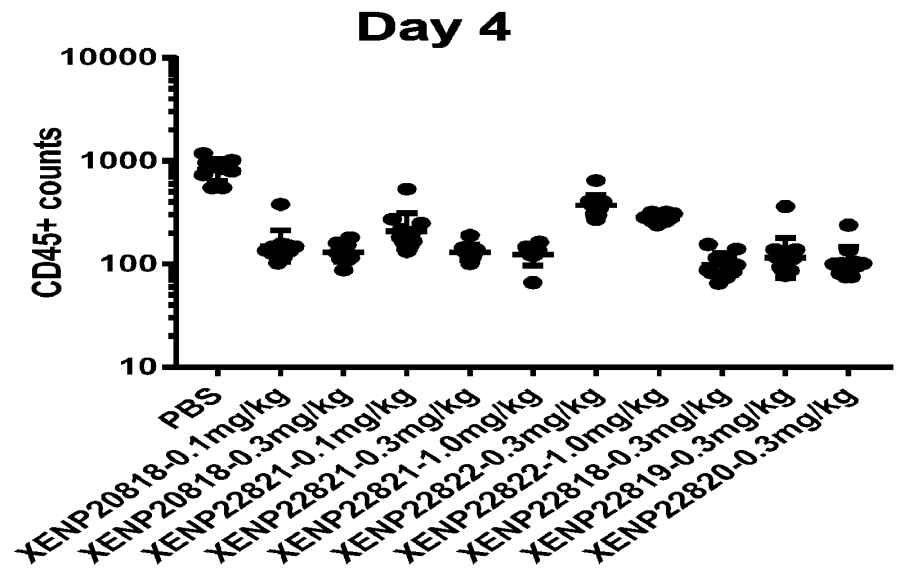


Figure 73B

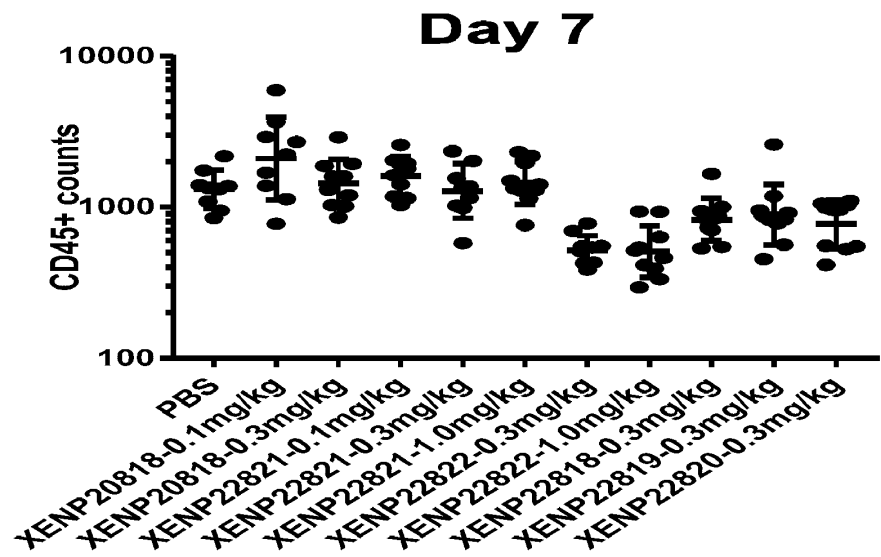


Figure 73C

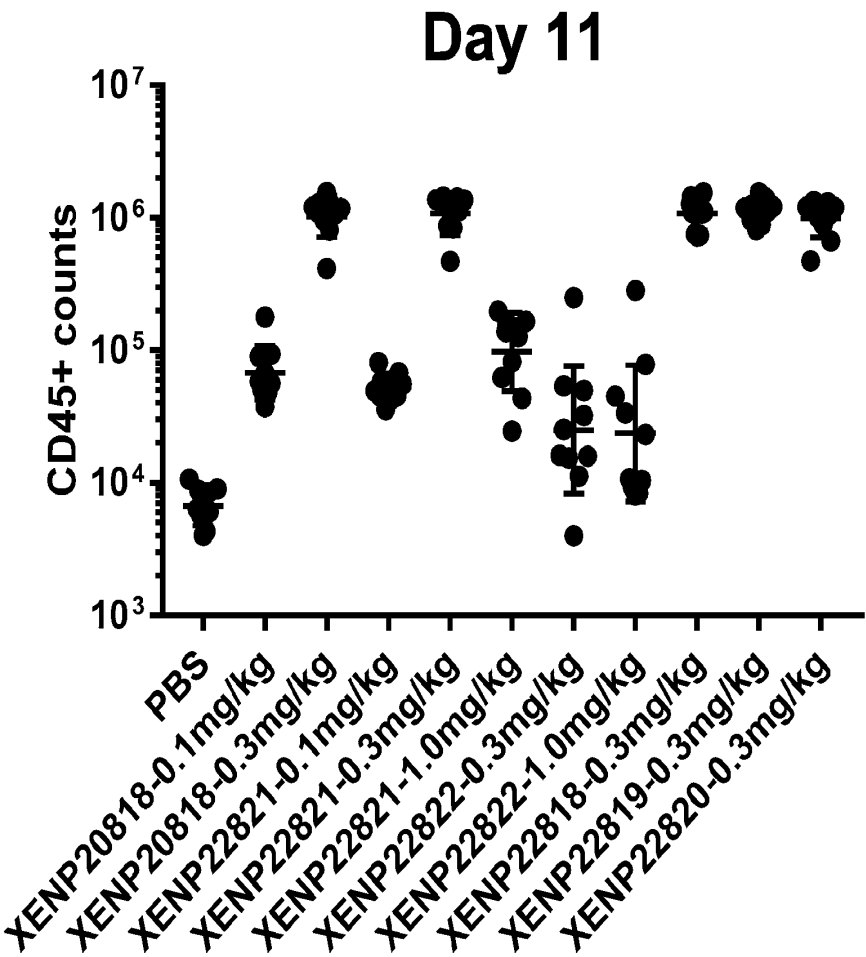


Figure 74A

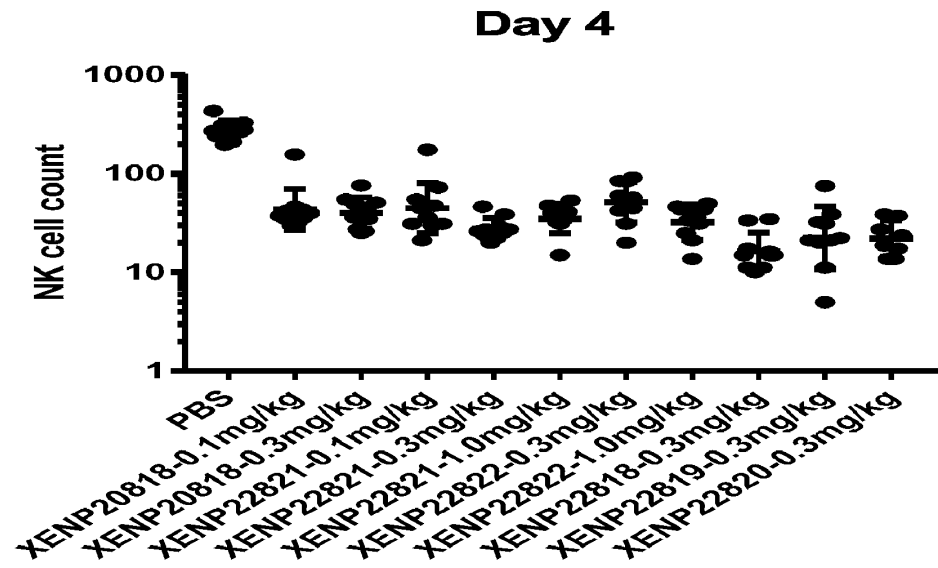


Figure 74B

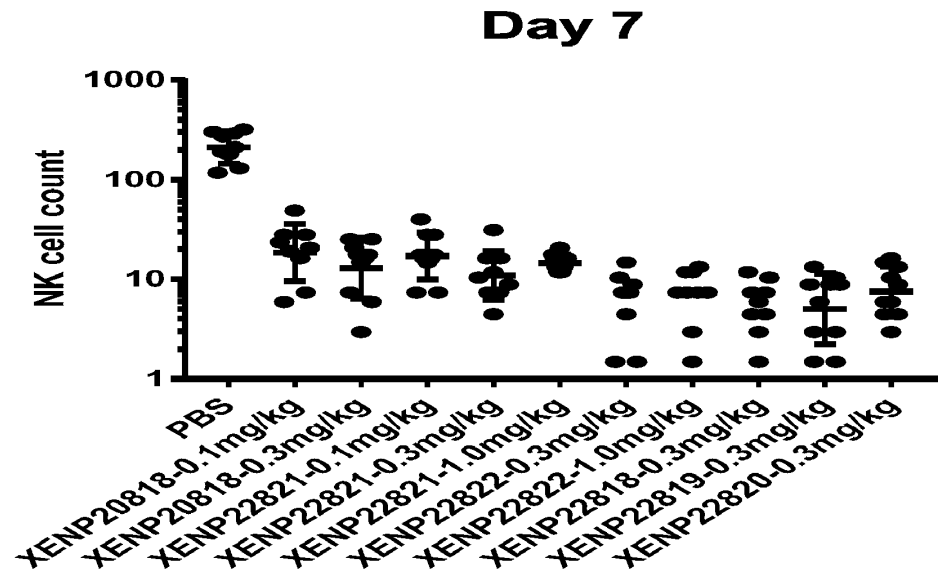


Figure 74C

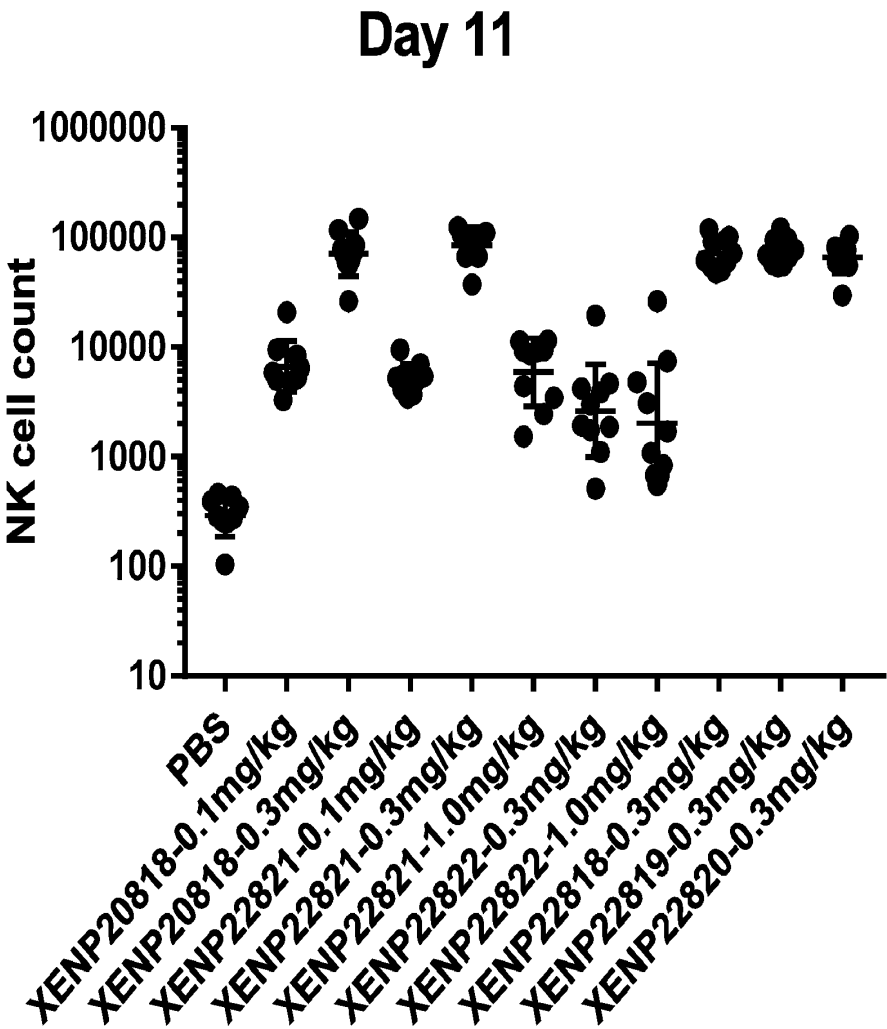


Figure 75A

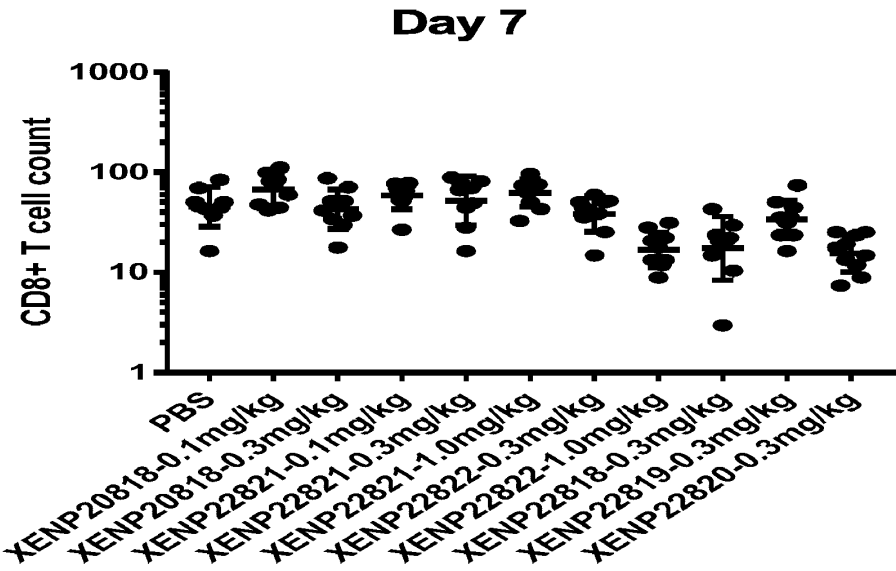


Figure 75B

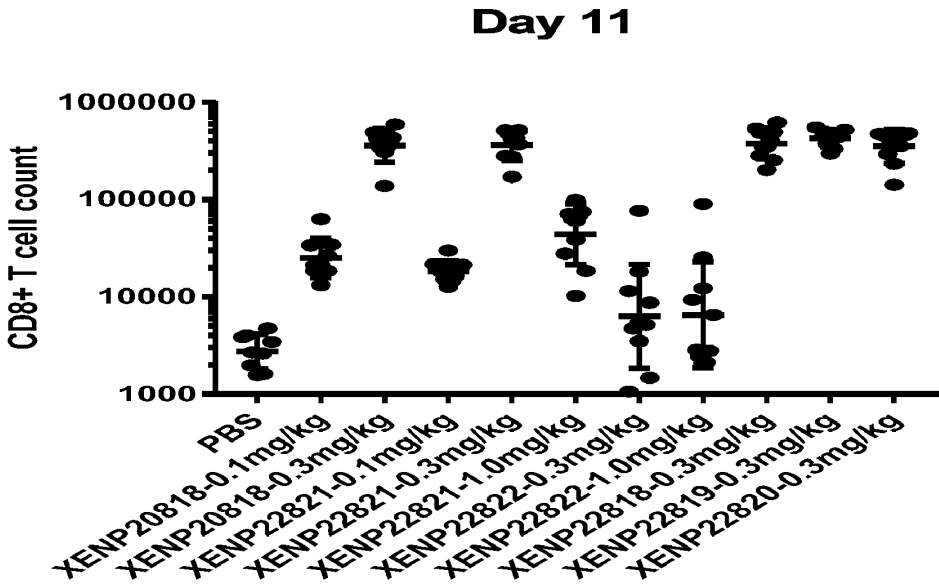


Figure 76A

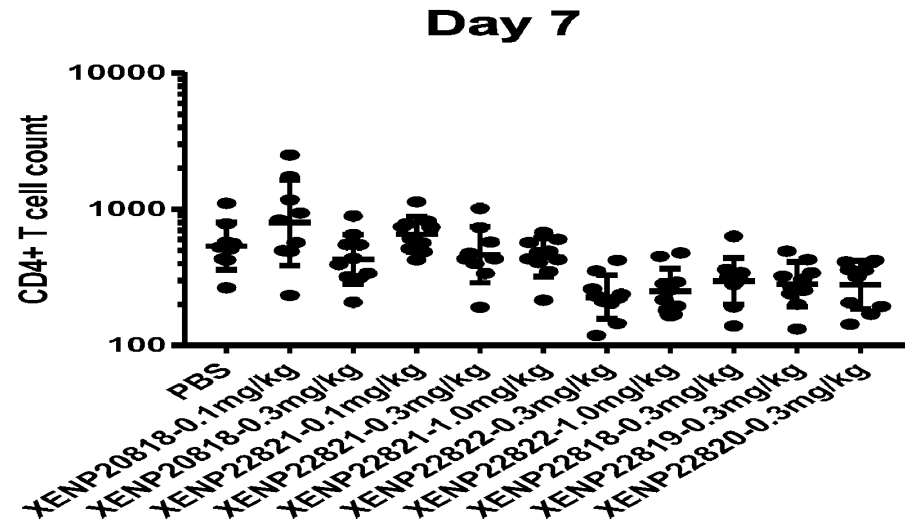


Figure 76B

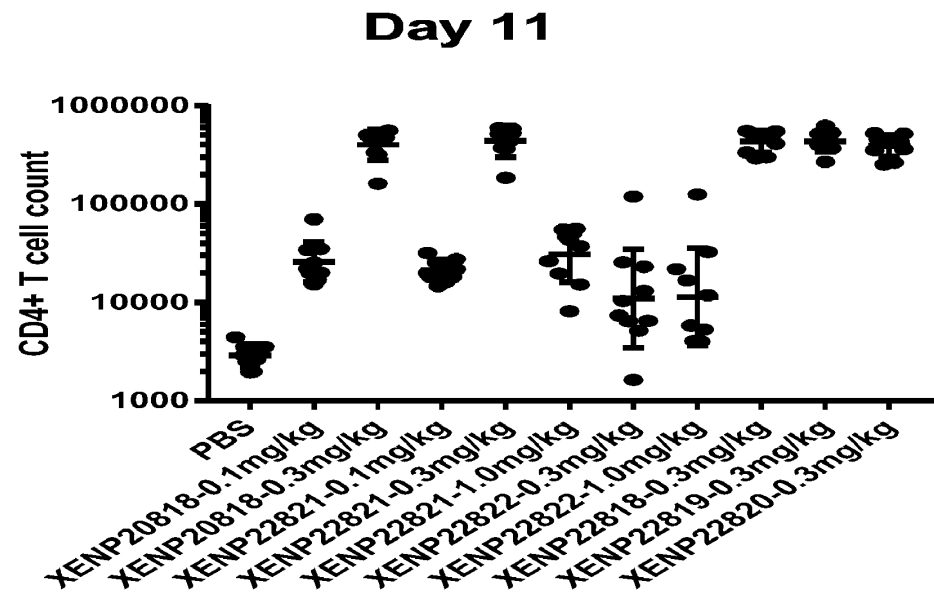
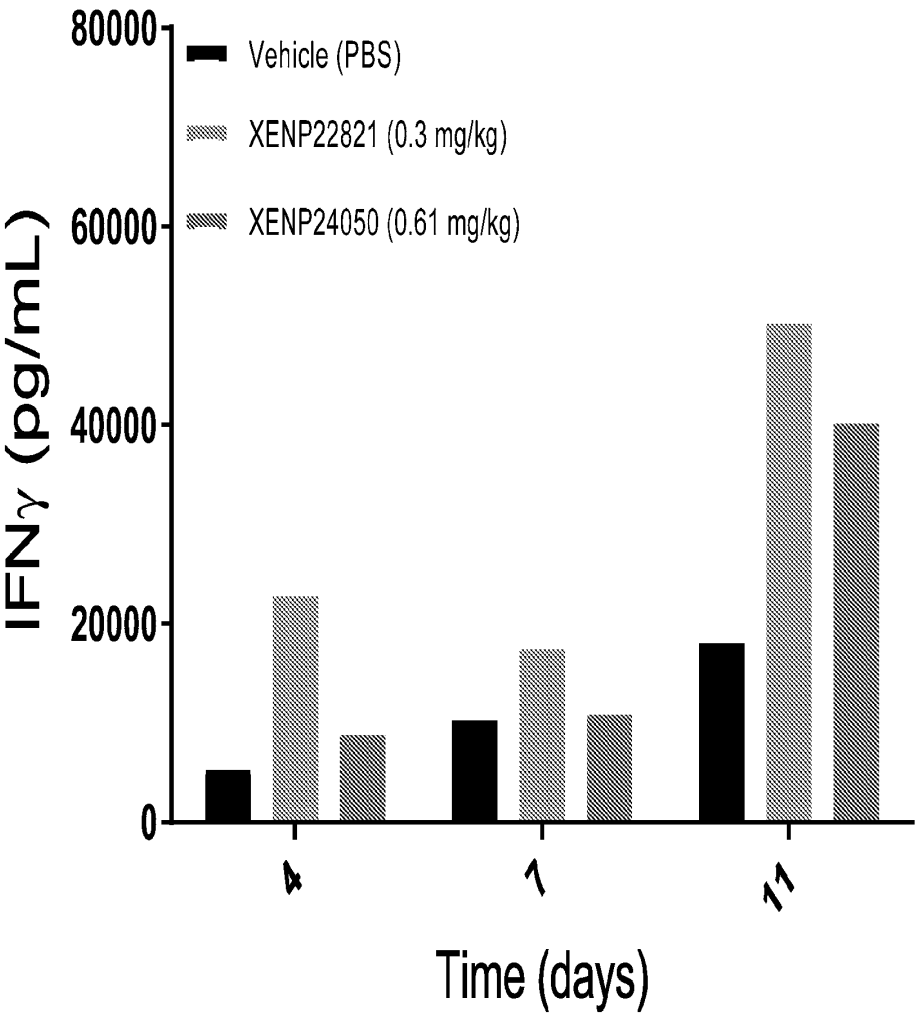


Figure 77



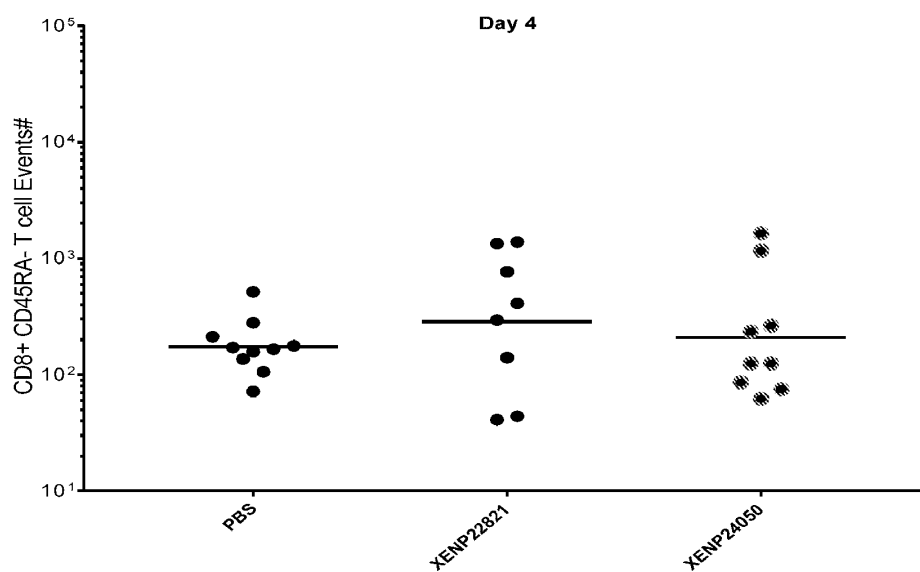
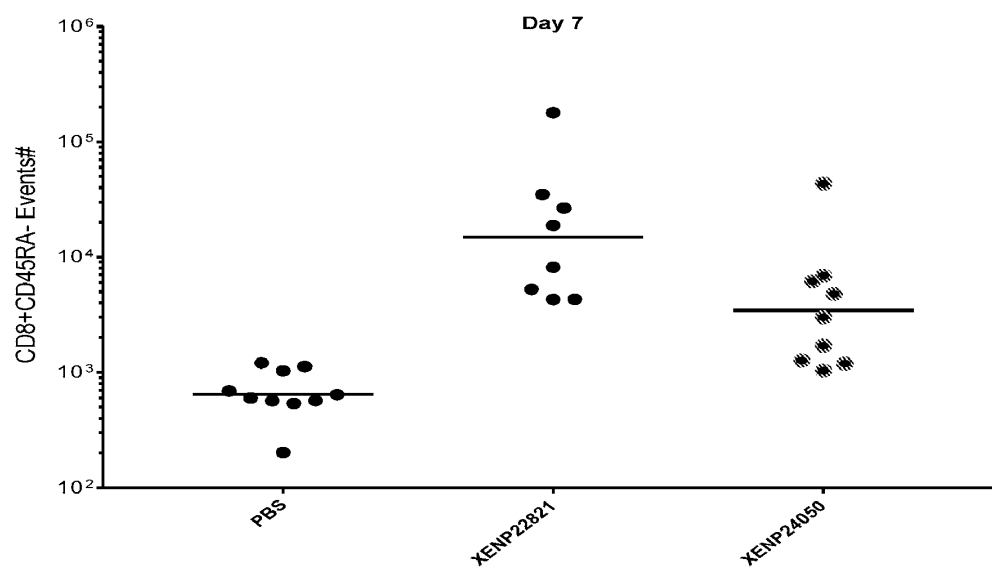
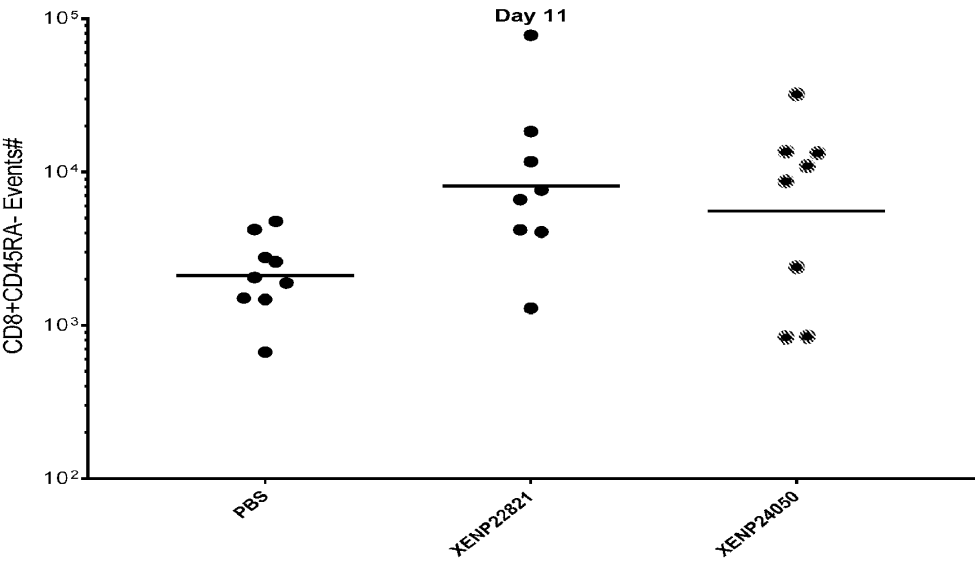


Figure 78C



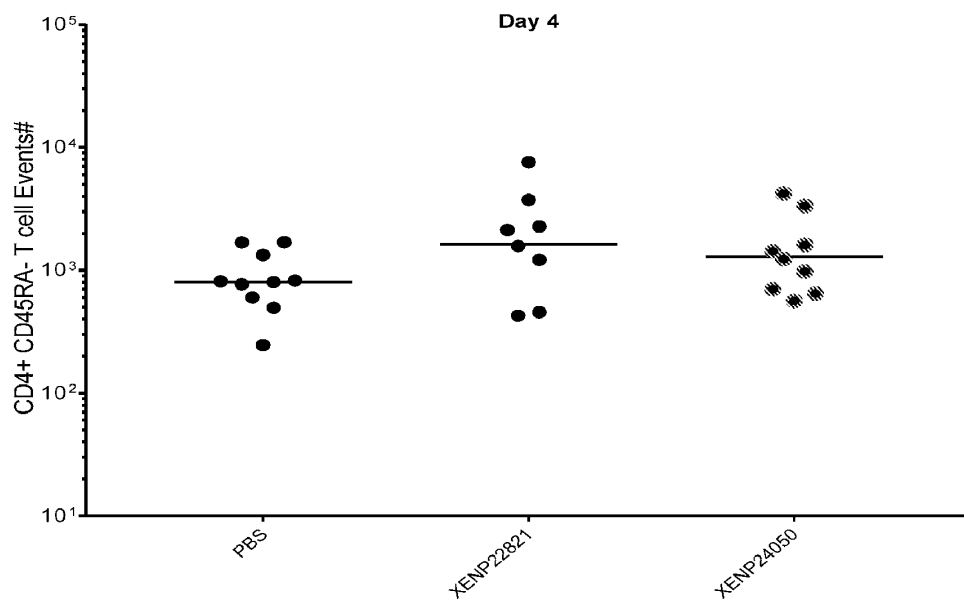
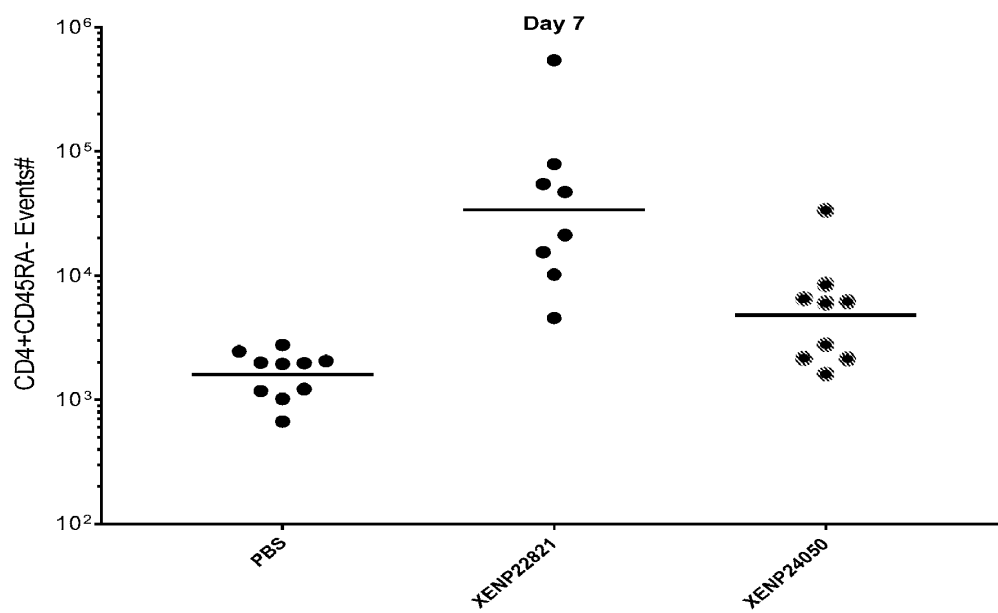


Figure 79C

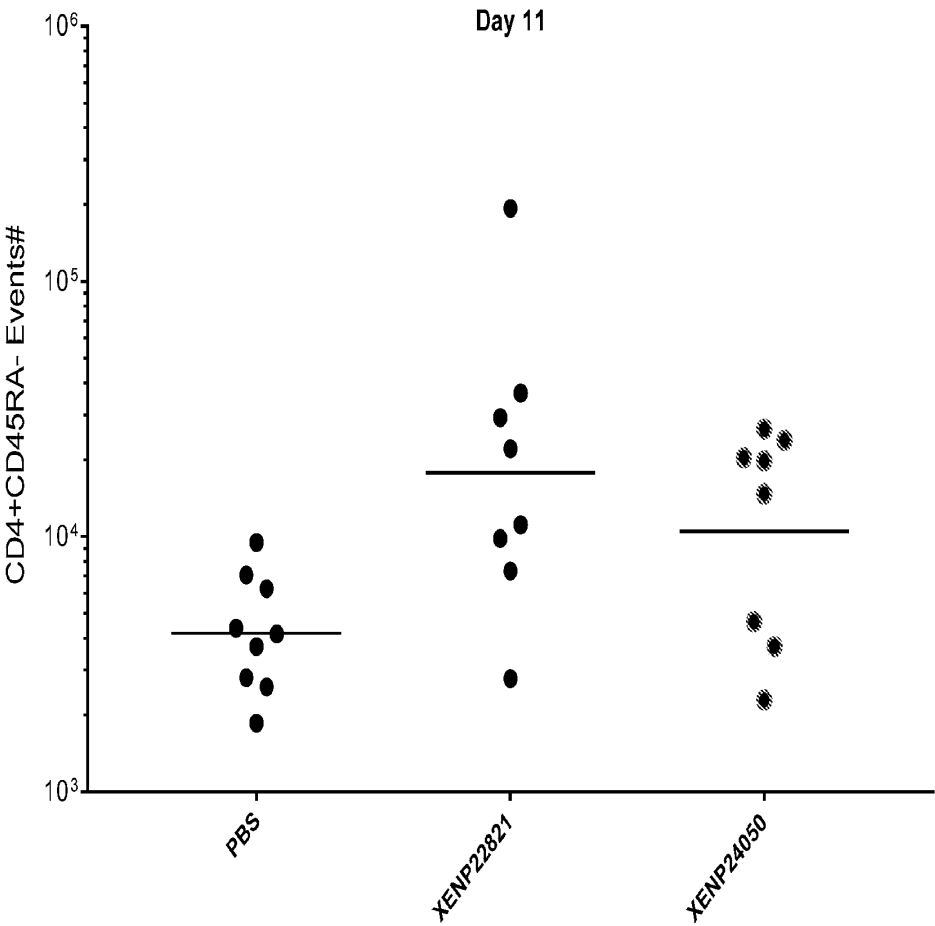


Figure 80A

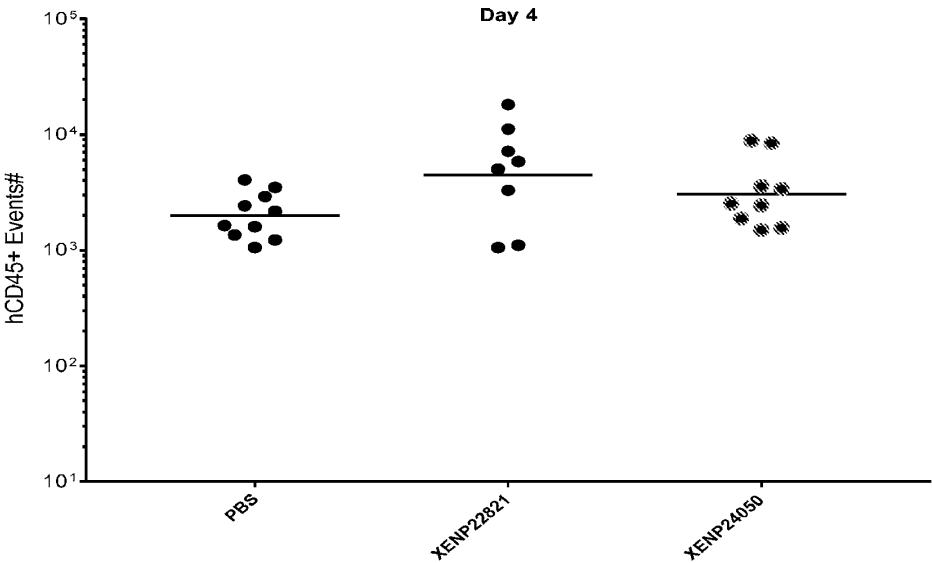


Figure 80B

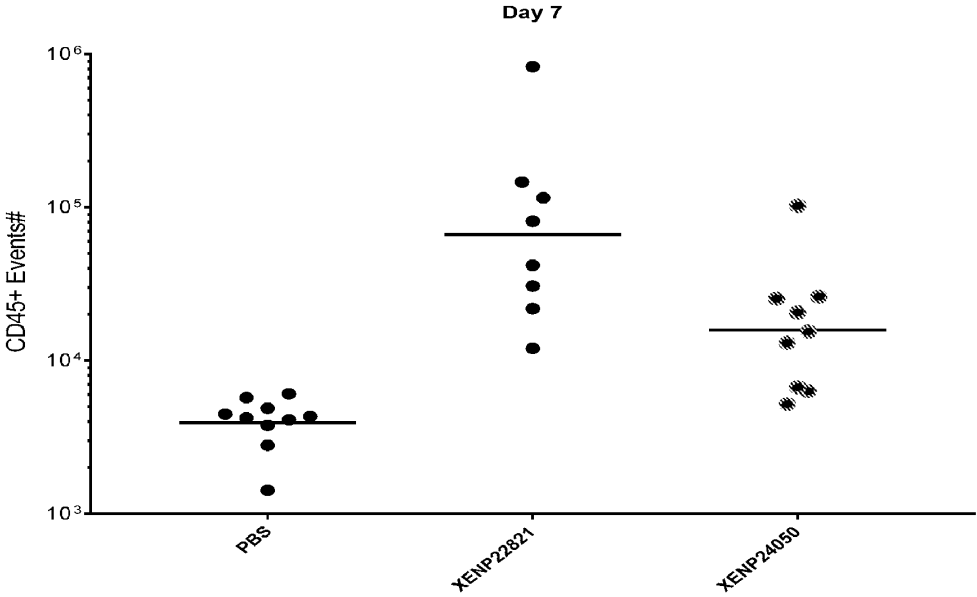
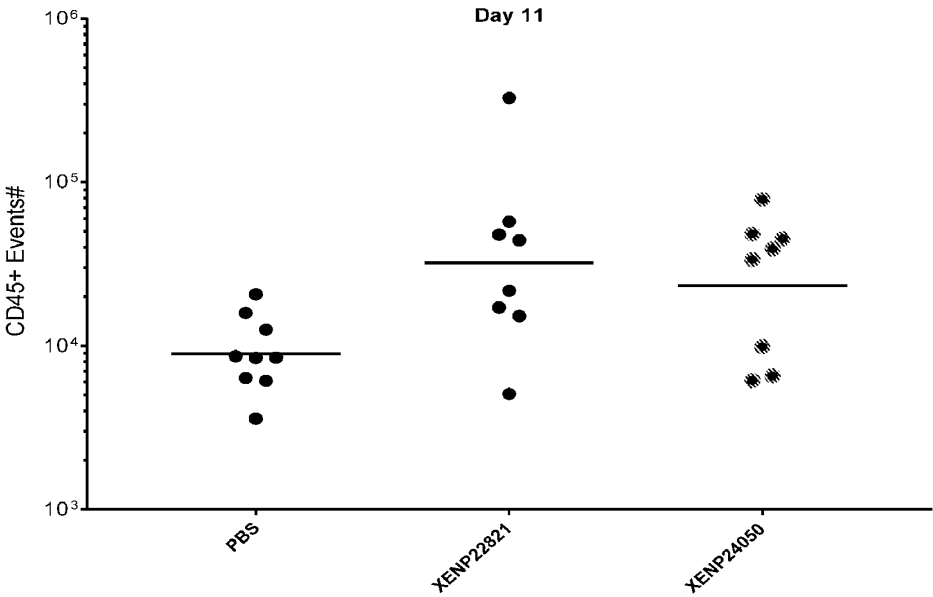


Figure 80C



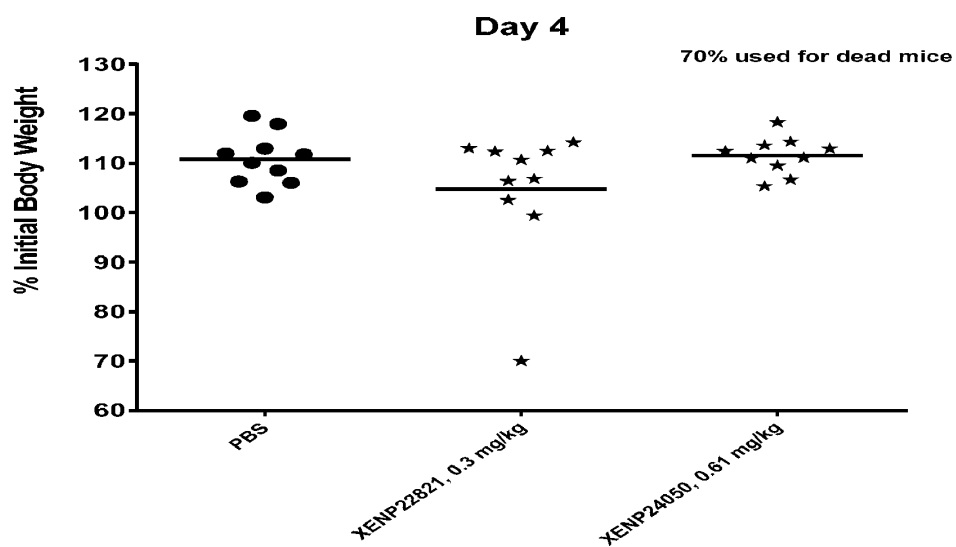
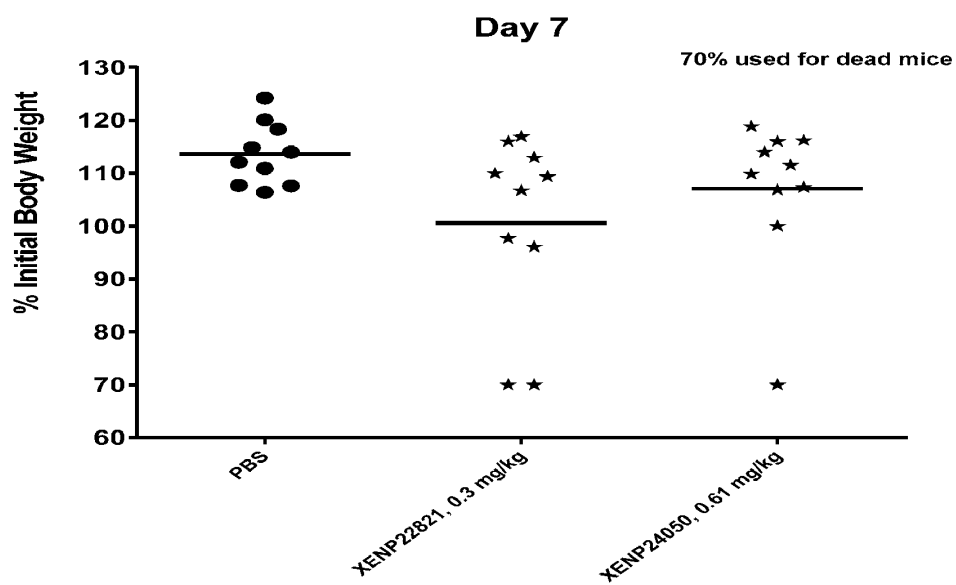


Figure 81C

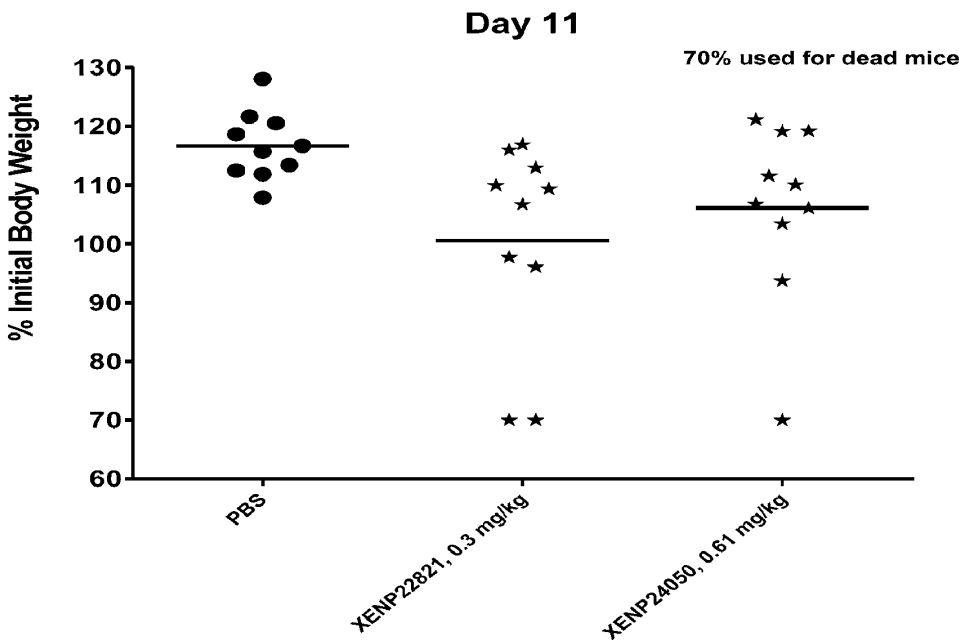


Figure 82A

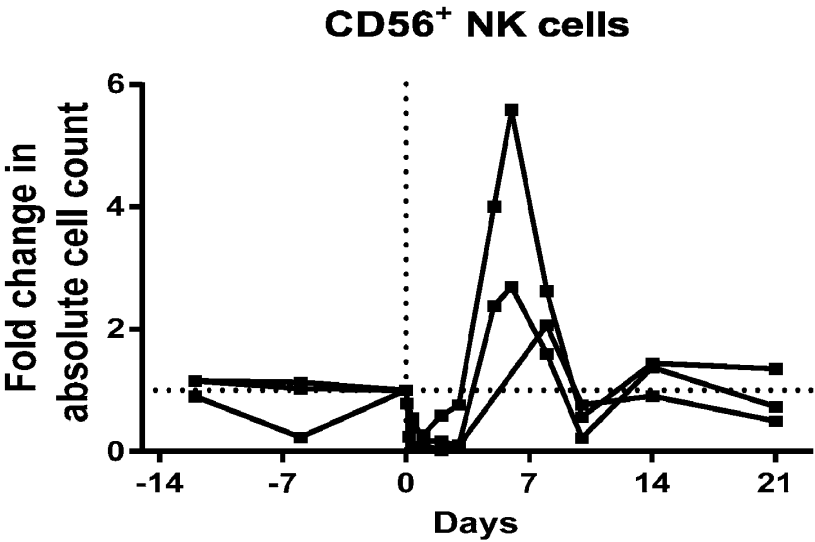


Figure 82B

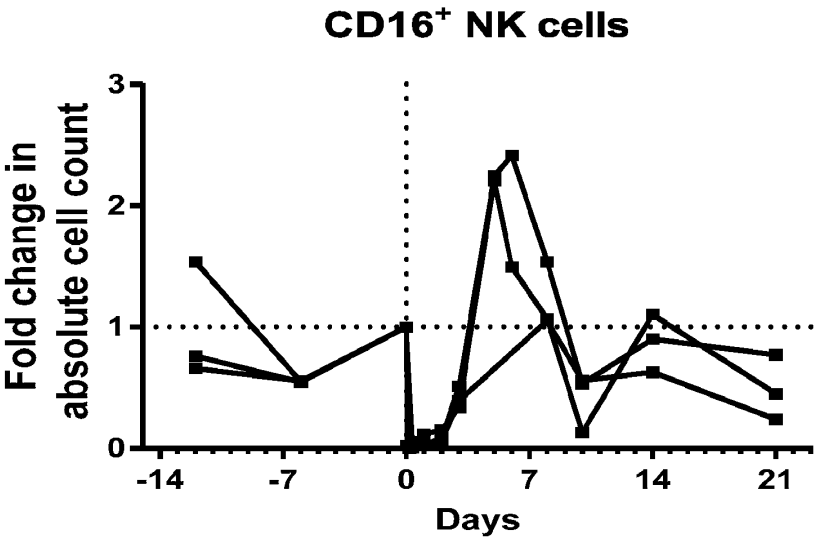


Figure 82C

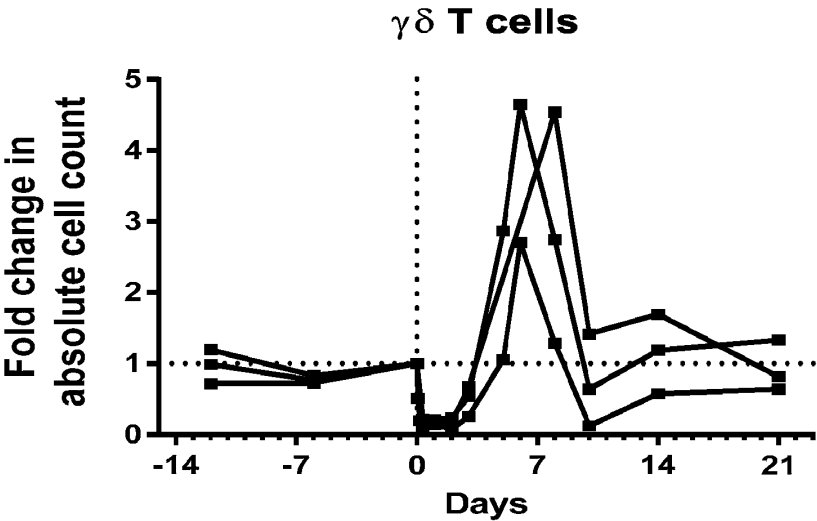


Figure 82D

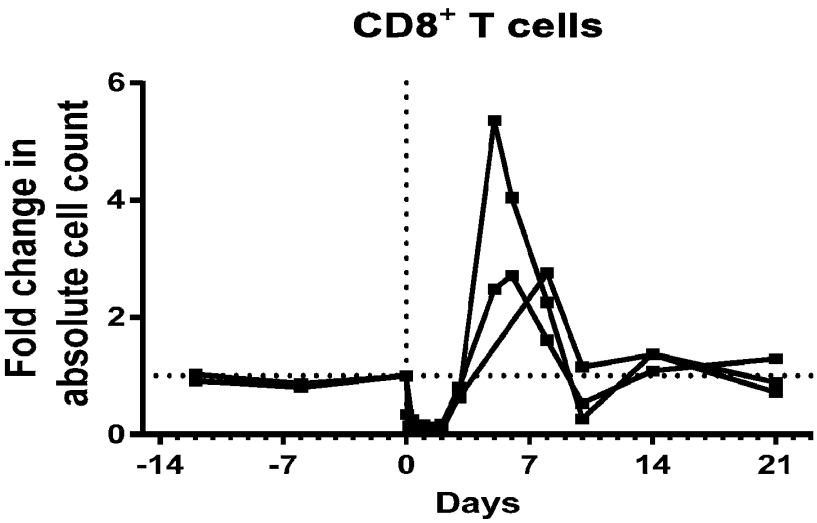


Figure 82E

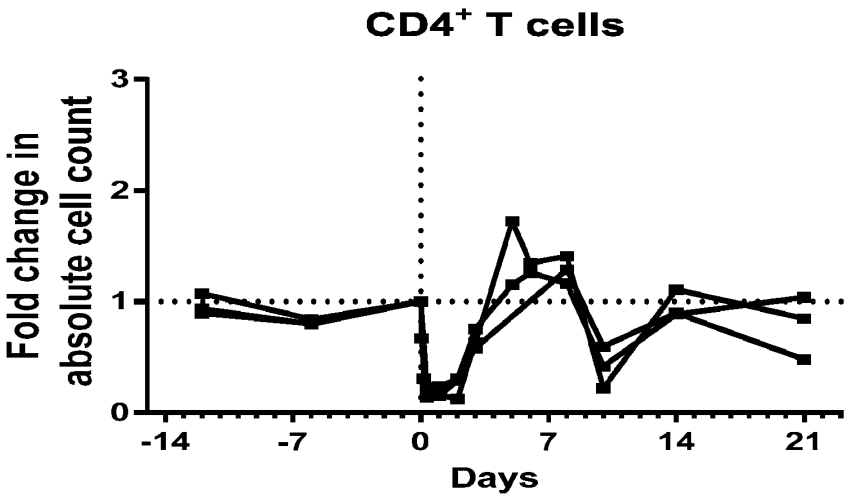


Figure 83A

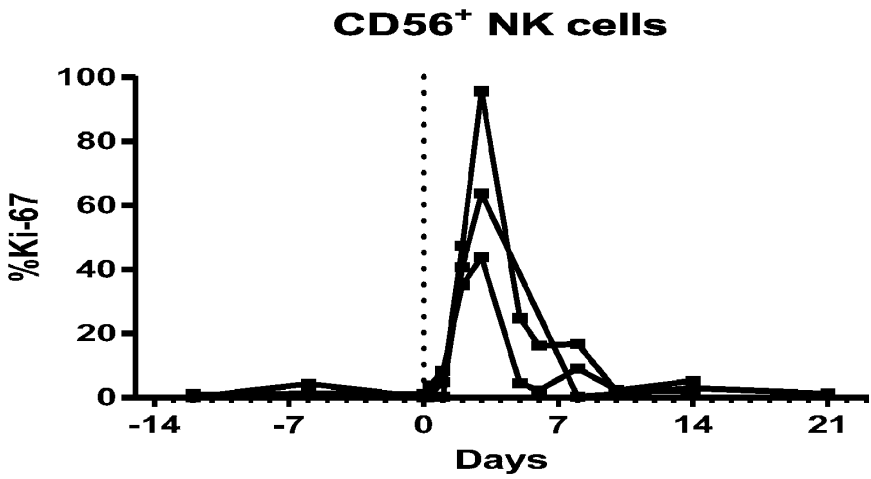


Figure 83B

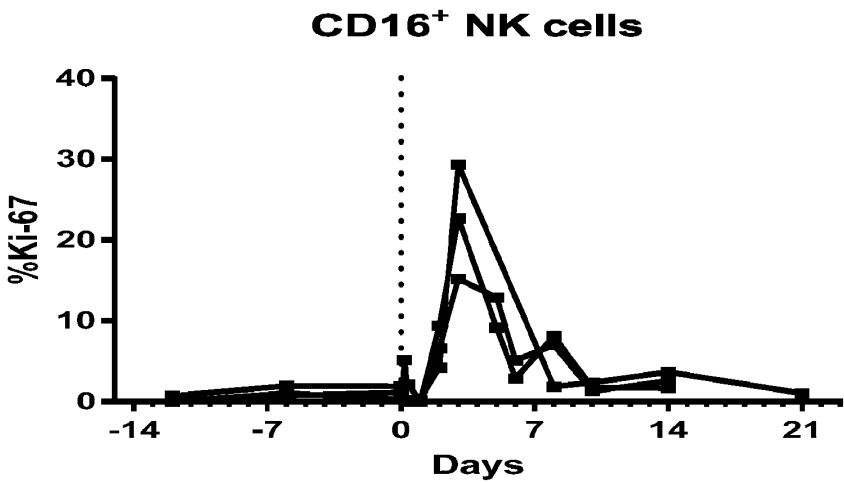


Figure 83C

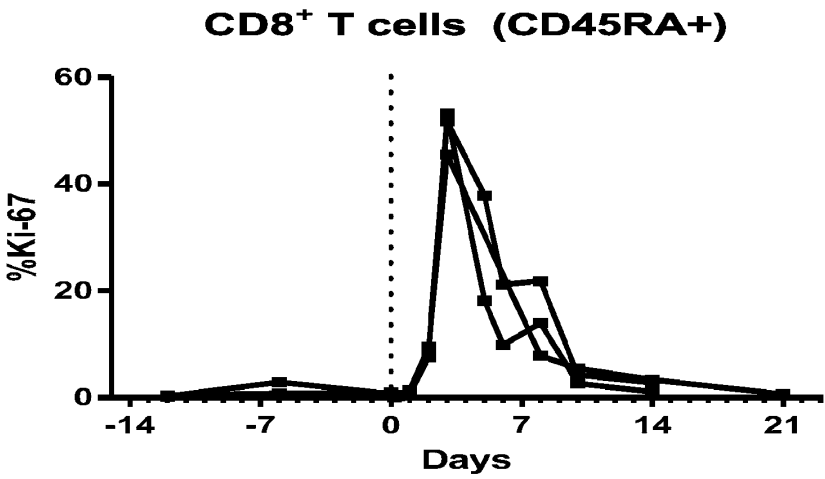


Figure 83D

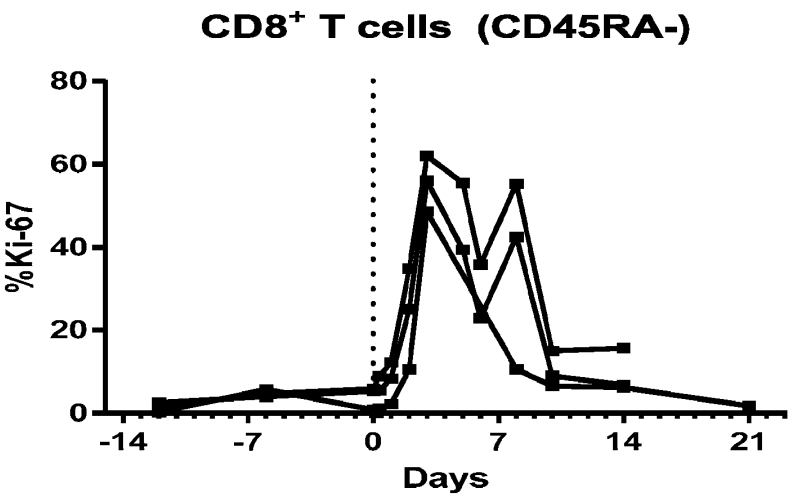


Figure 83E

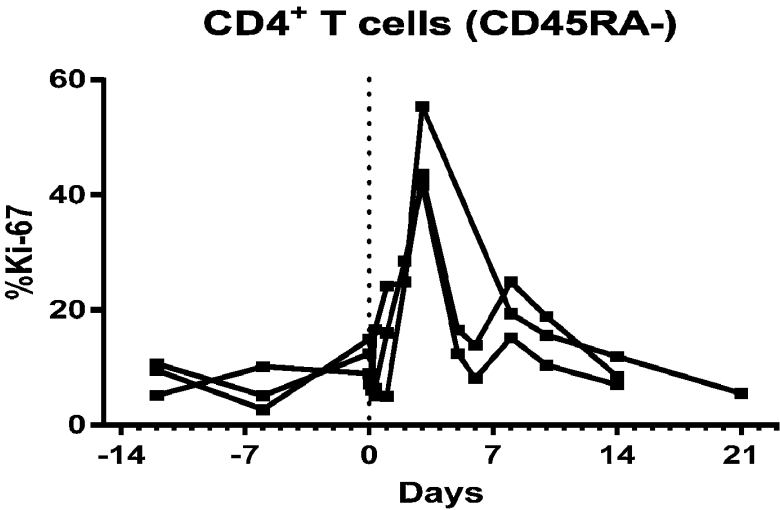


Figure 84A

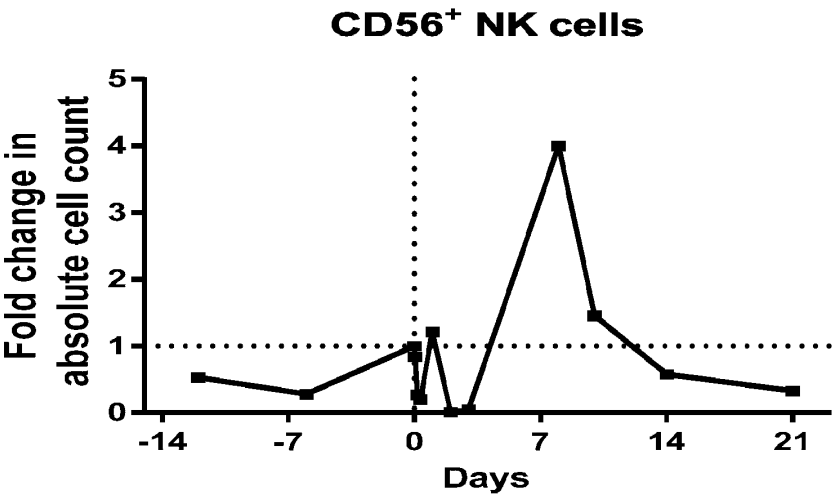


Figure 84B

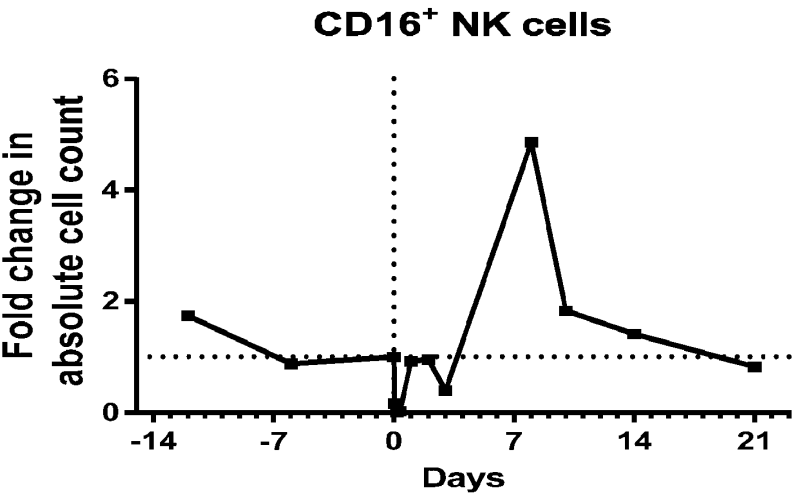


Figure 84C

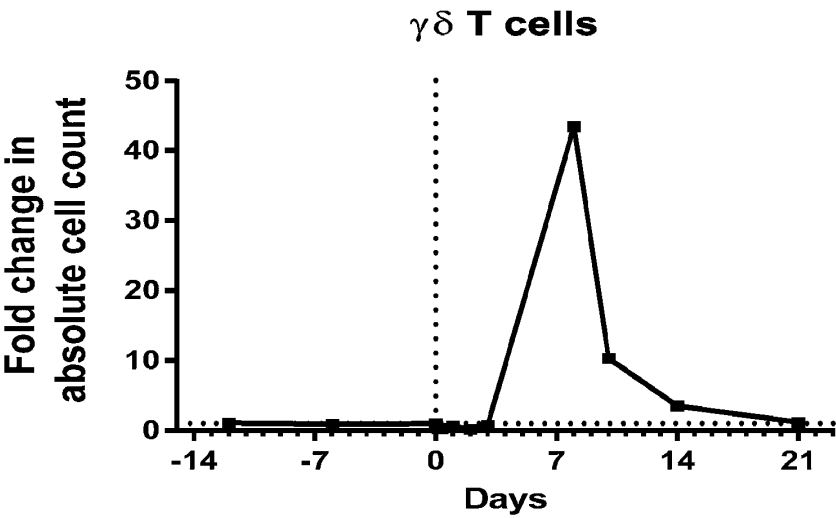


Figure 84D

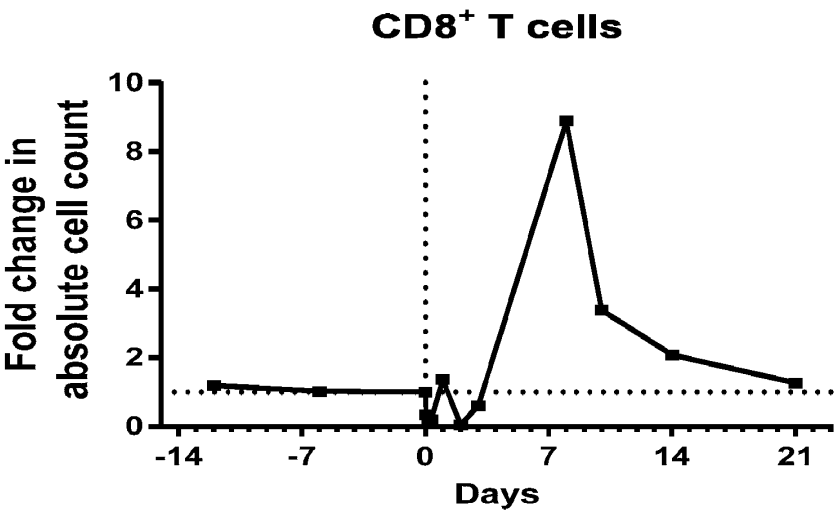


Figure 84E

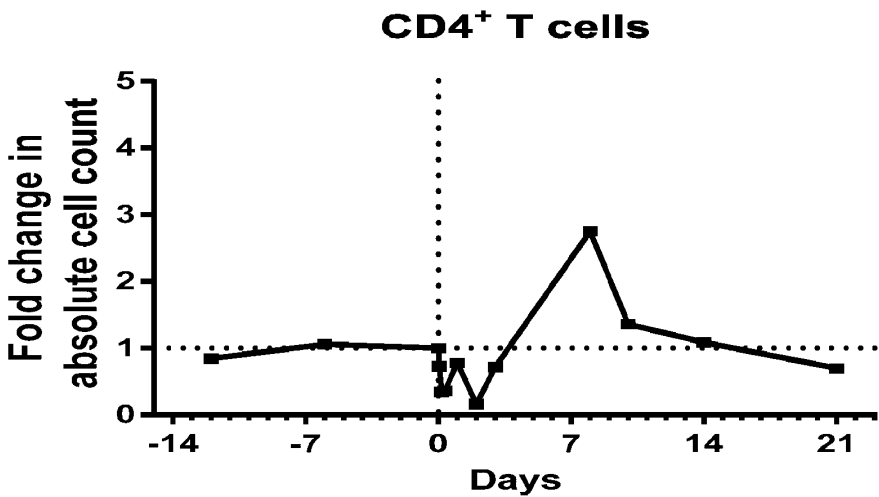


Figure 85A

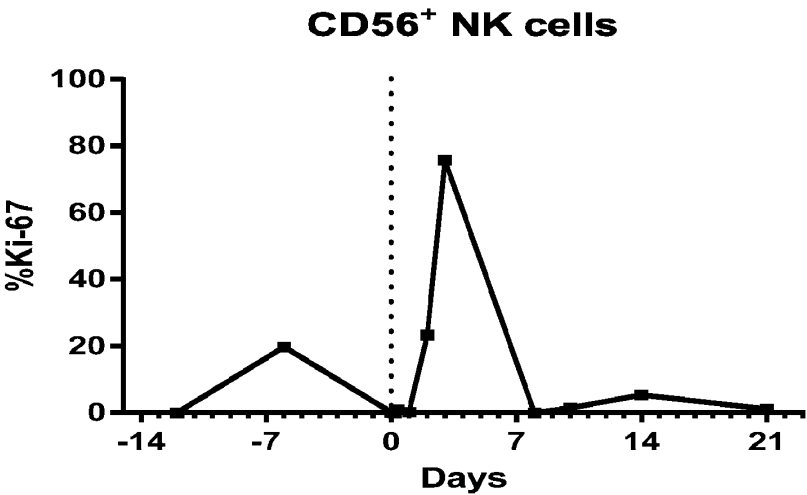


Figure 85B

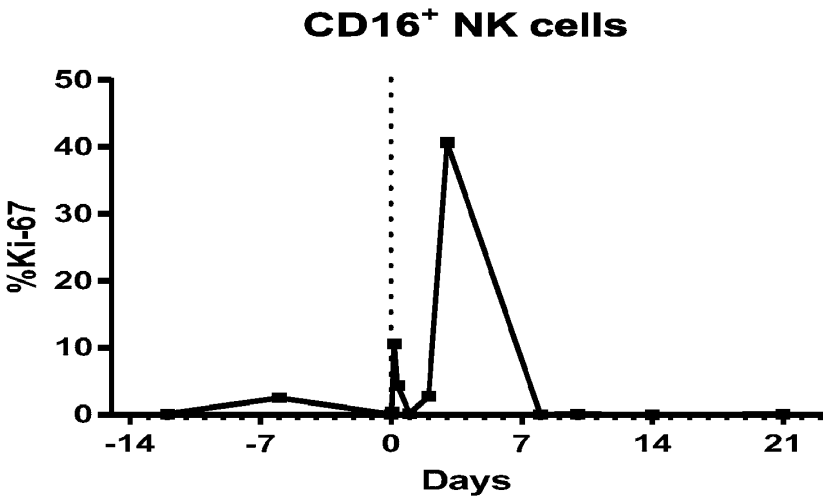


Figure 85C

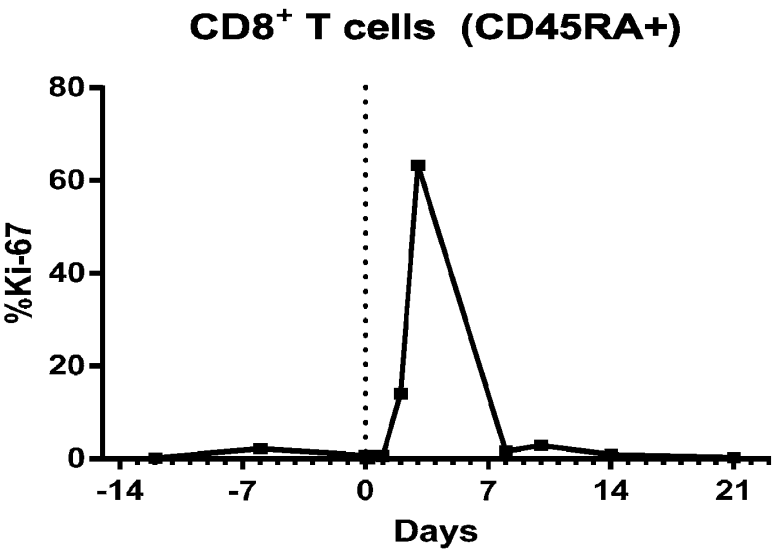


Figure 85D

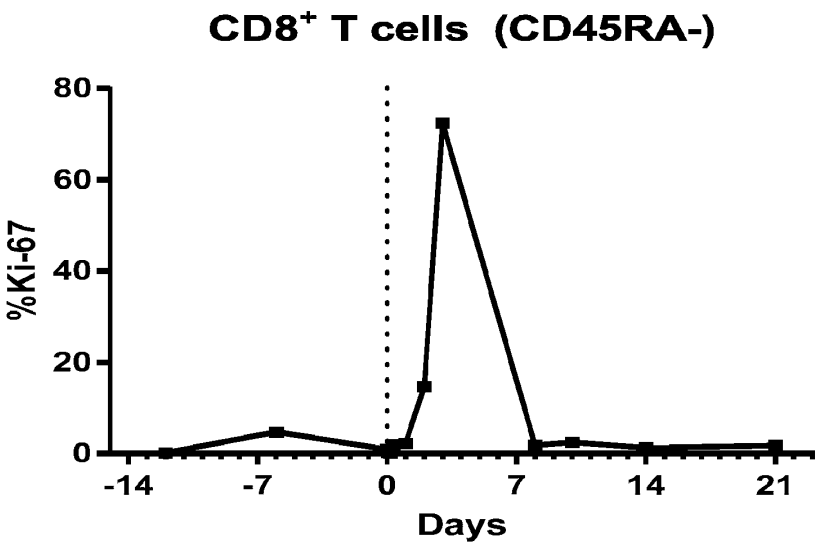


Figure 85E

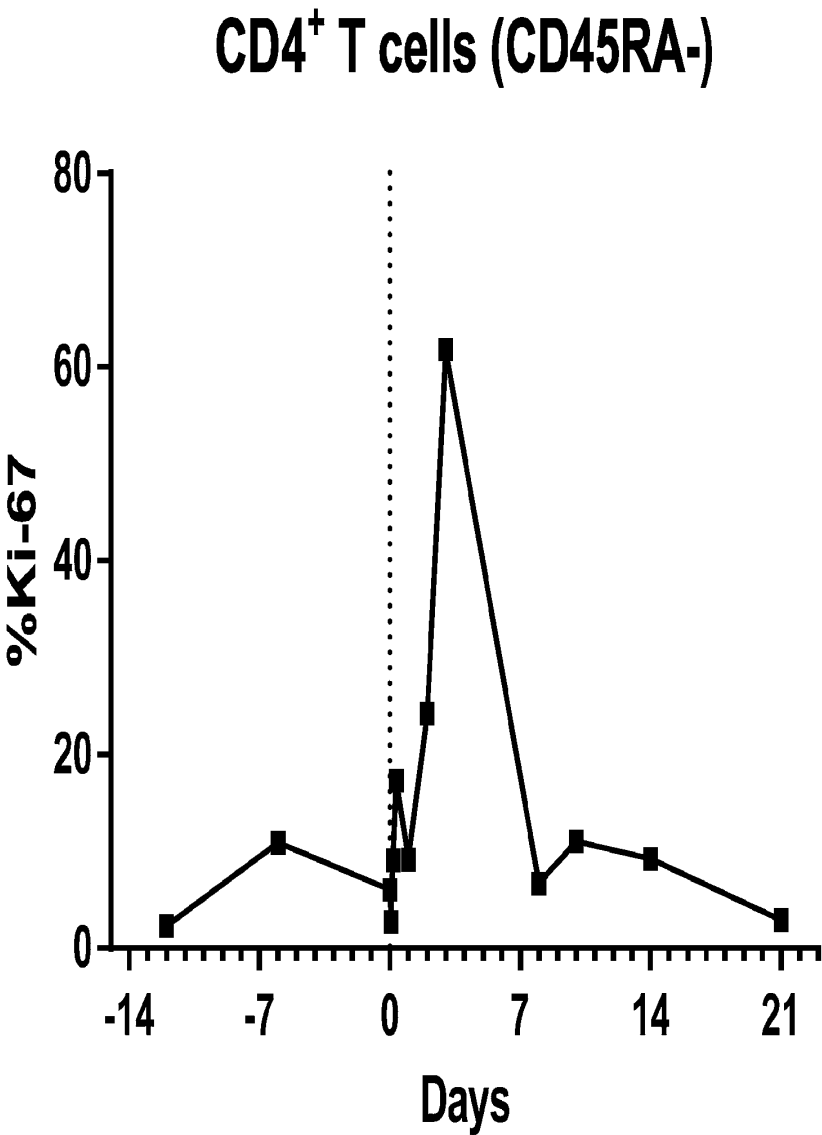


Figure 86A

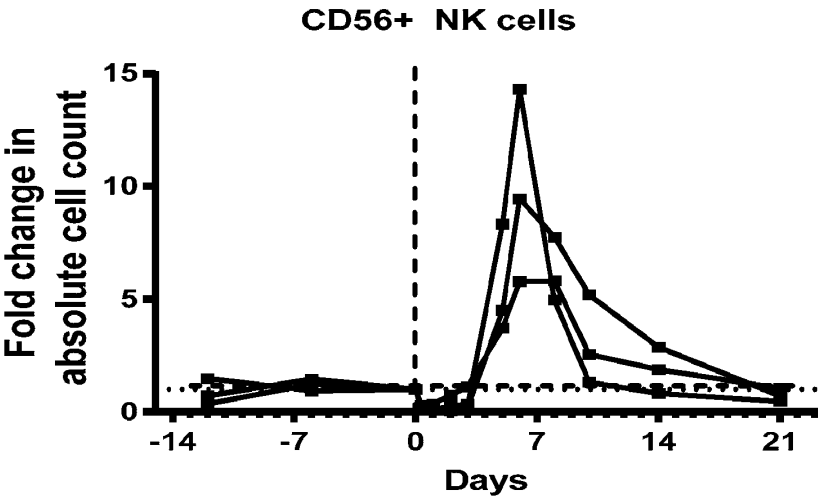


Figure 86B

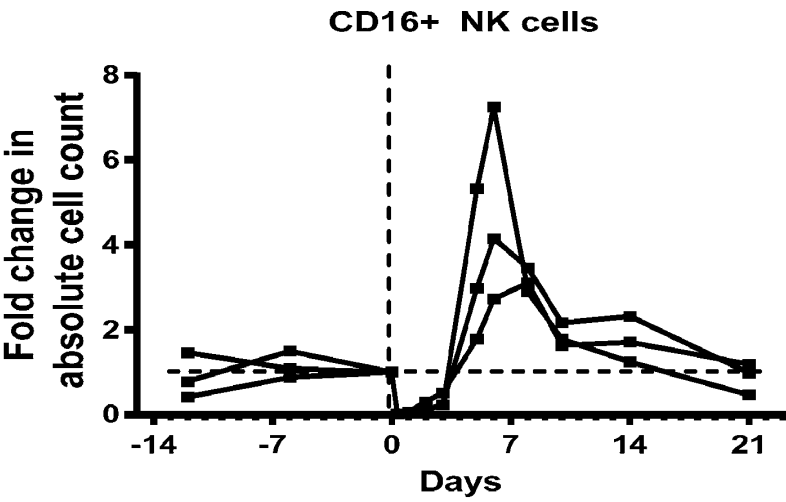


Figure 86C

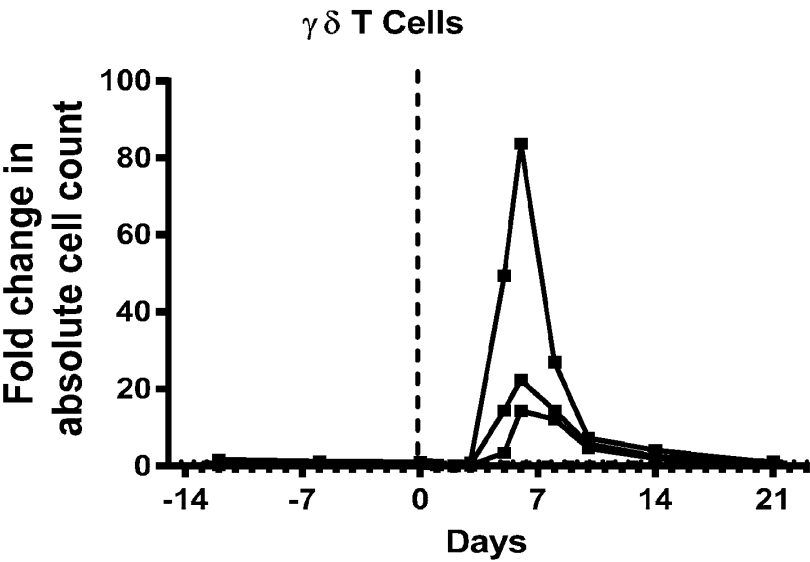


Figure 86D

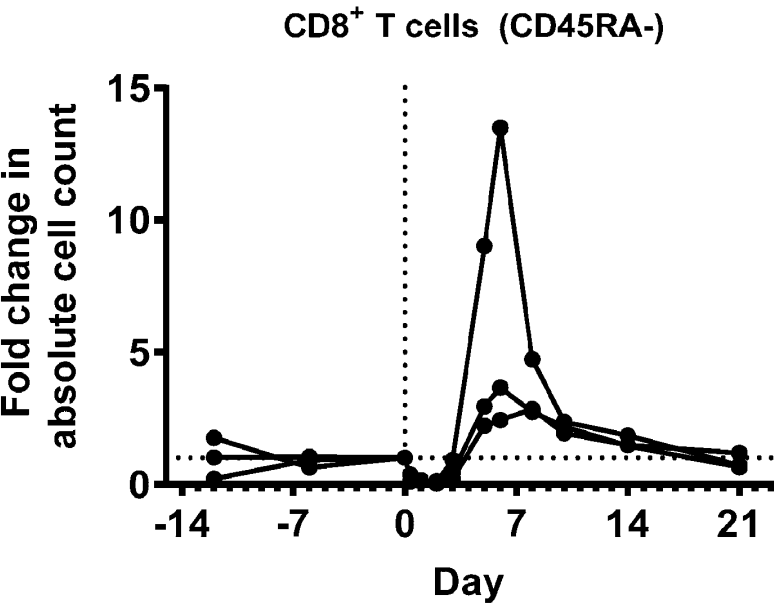


Figure 86E

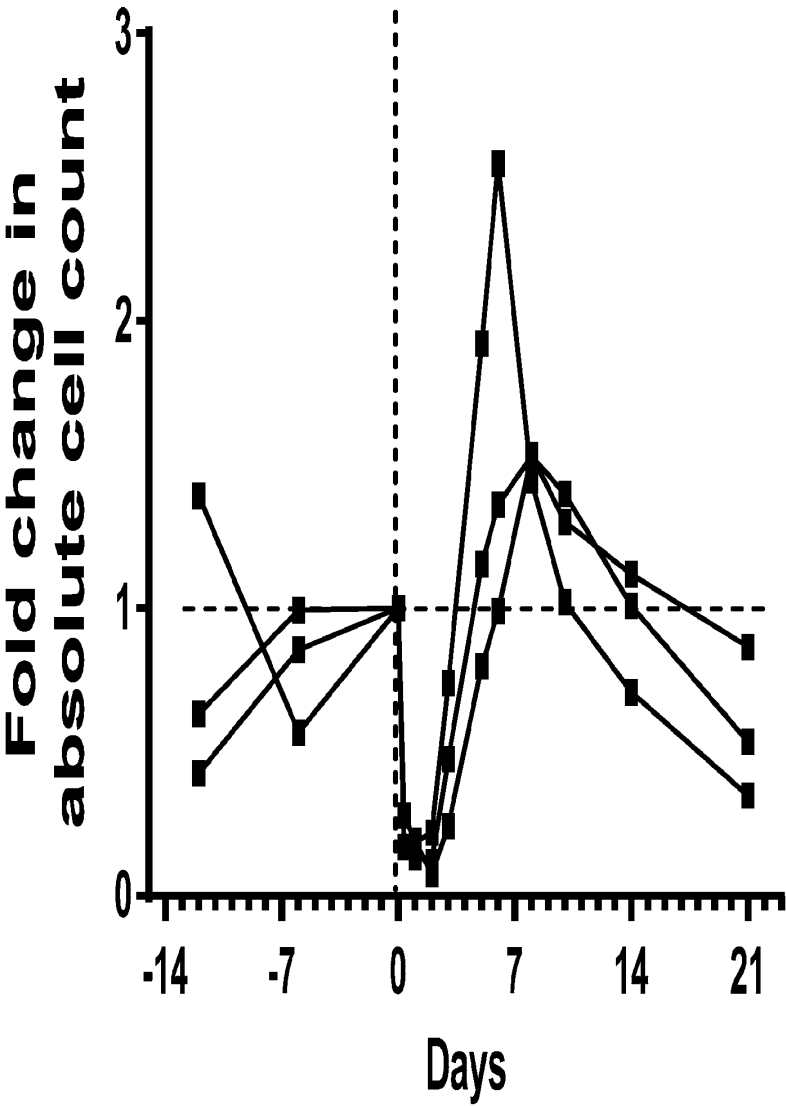


Figure 87A

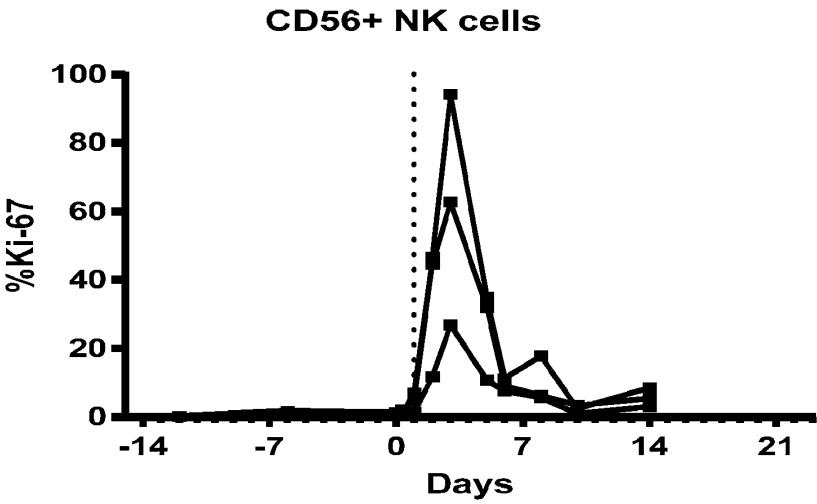


Figure 87B

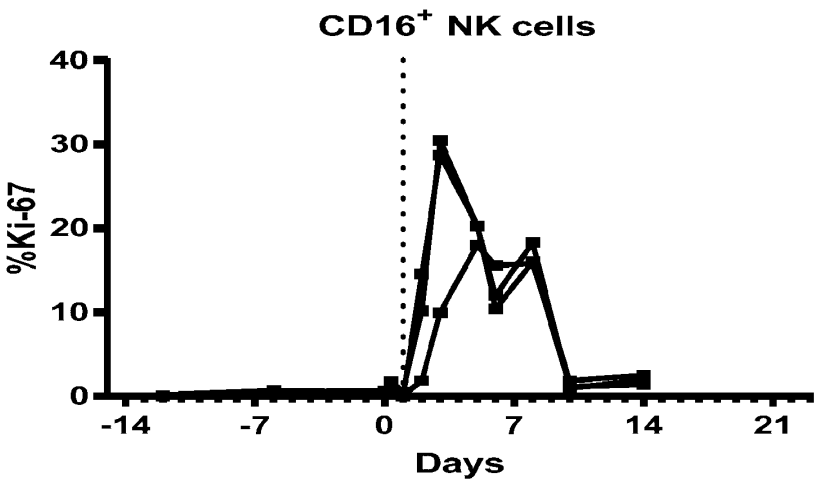


Figure 87C

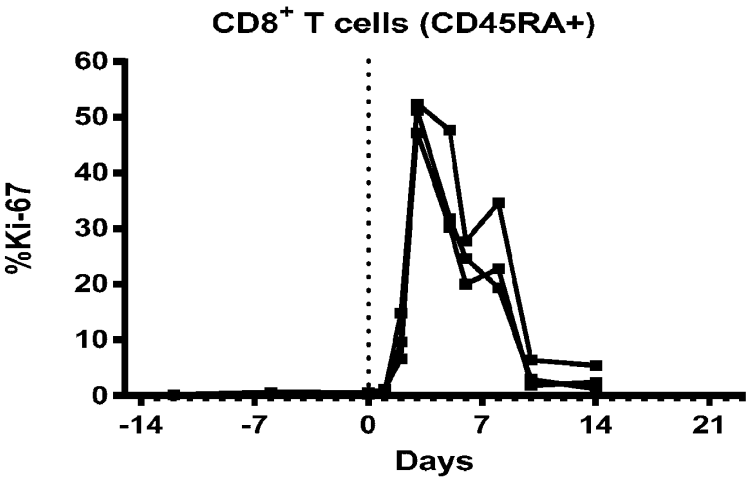


Figure 87D

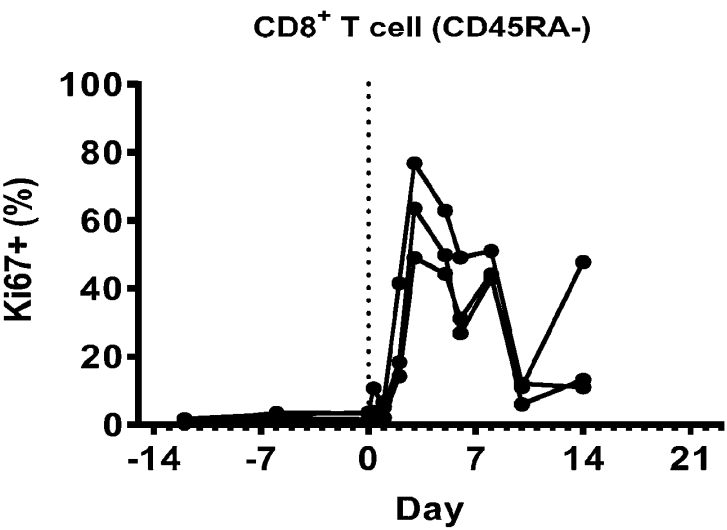


Figure 87E

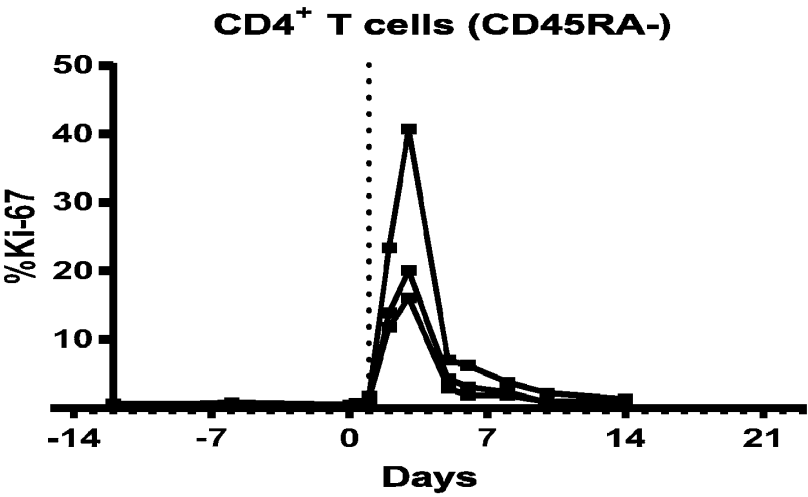


Figure 88A

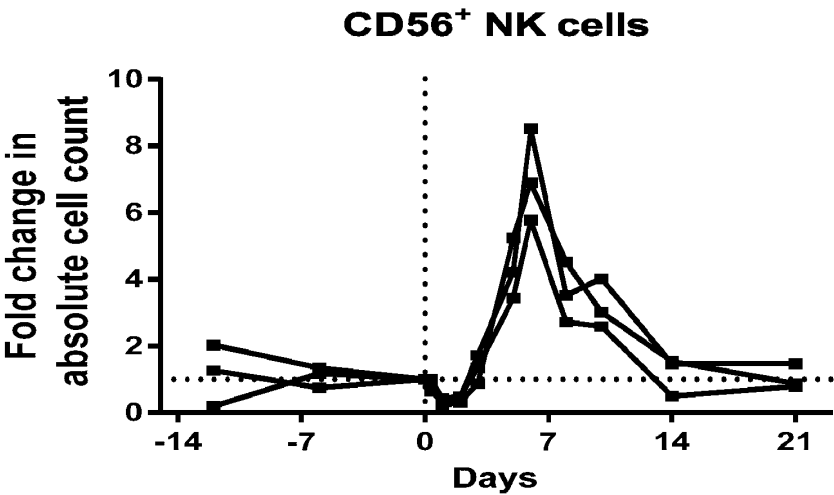


Figure 88B

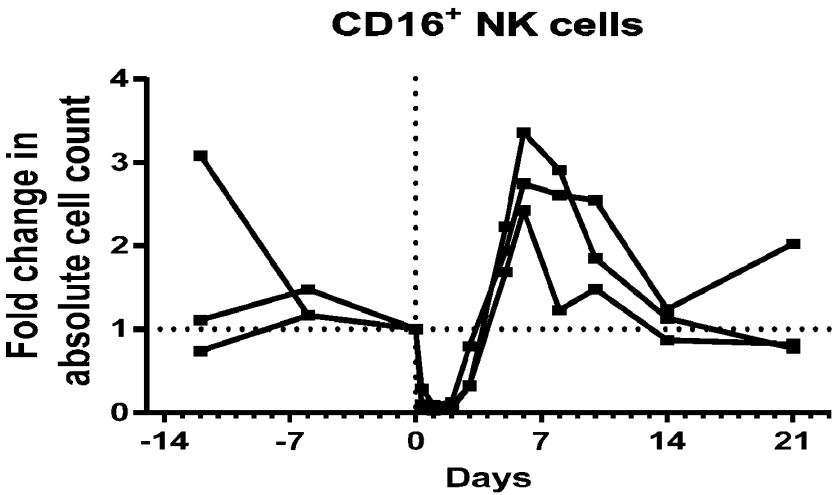


Figure 88C

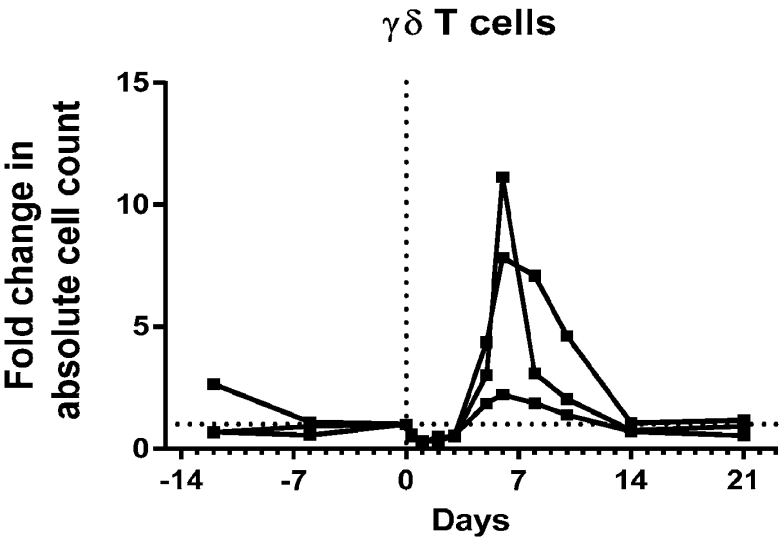


Figure 88D

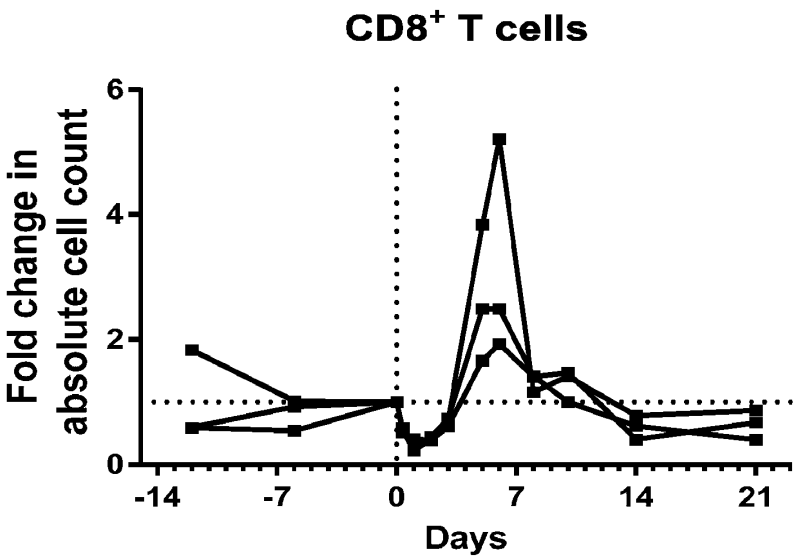


Figure 88E

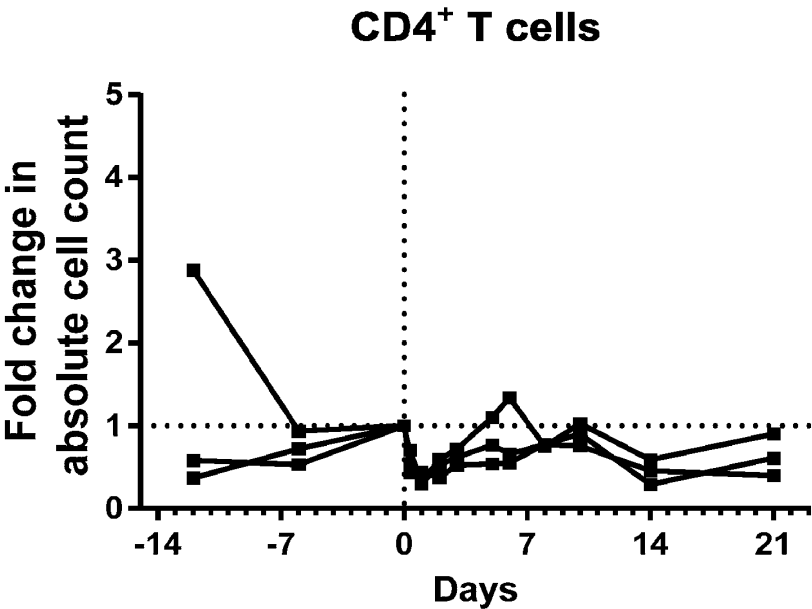


Figure 89A

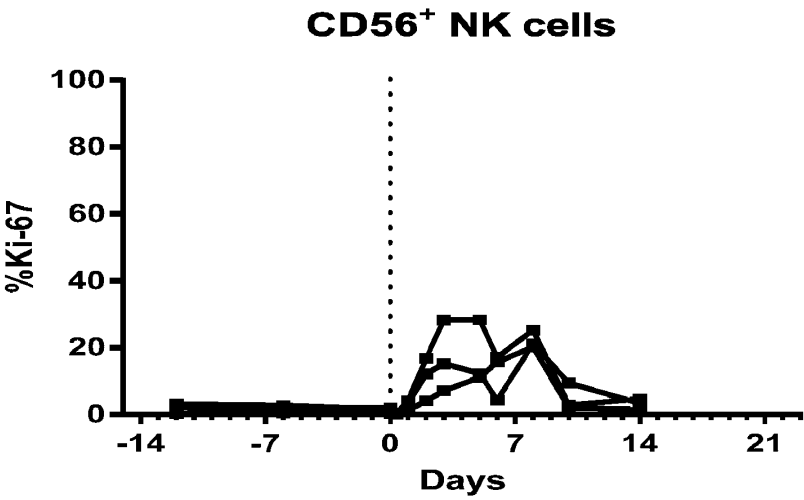


Figure 89B

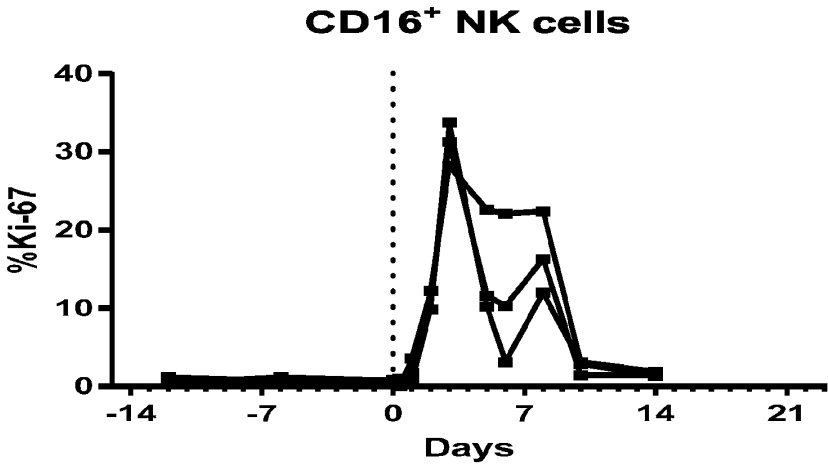


Figure 89C

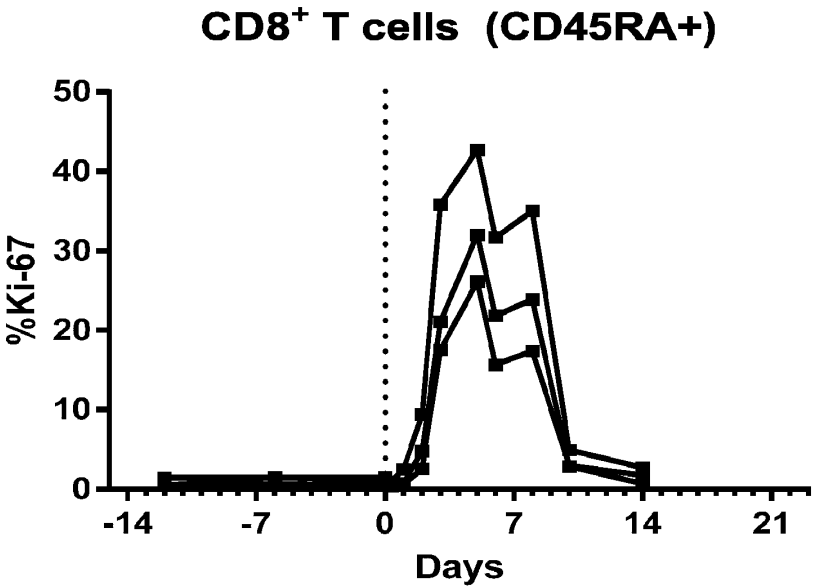


Figure 89D

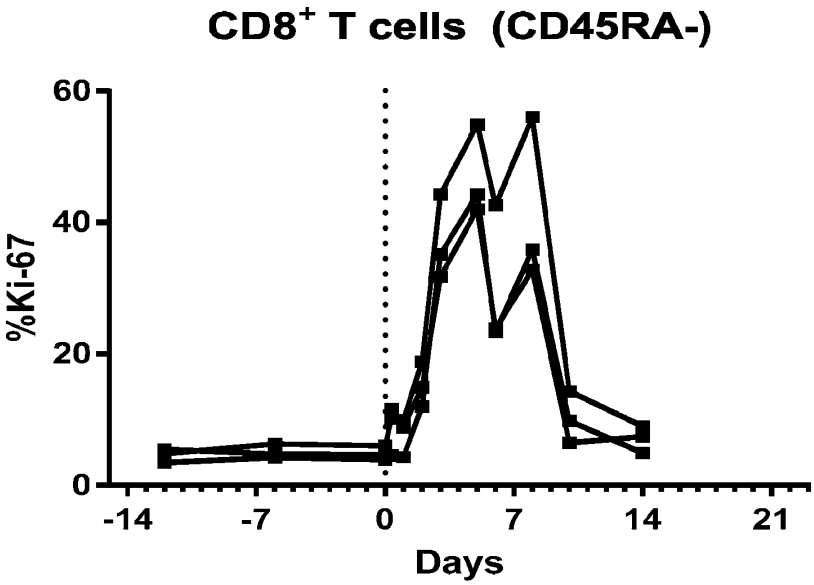


Figure 89E

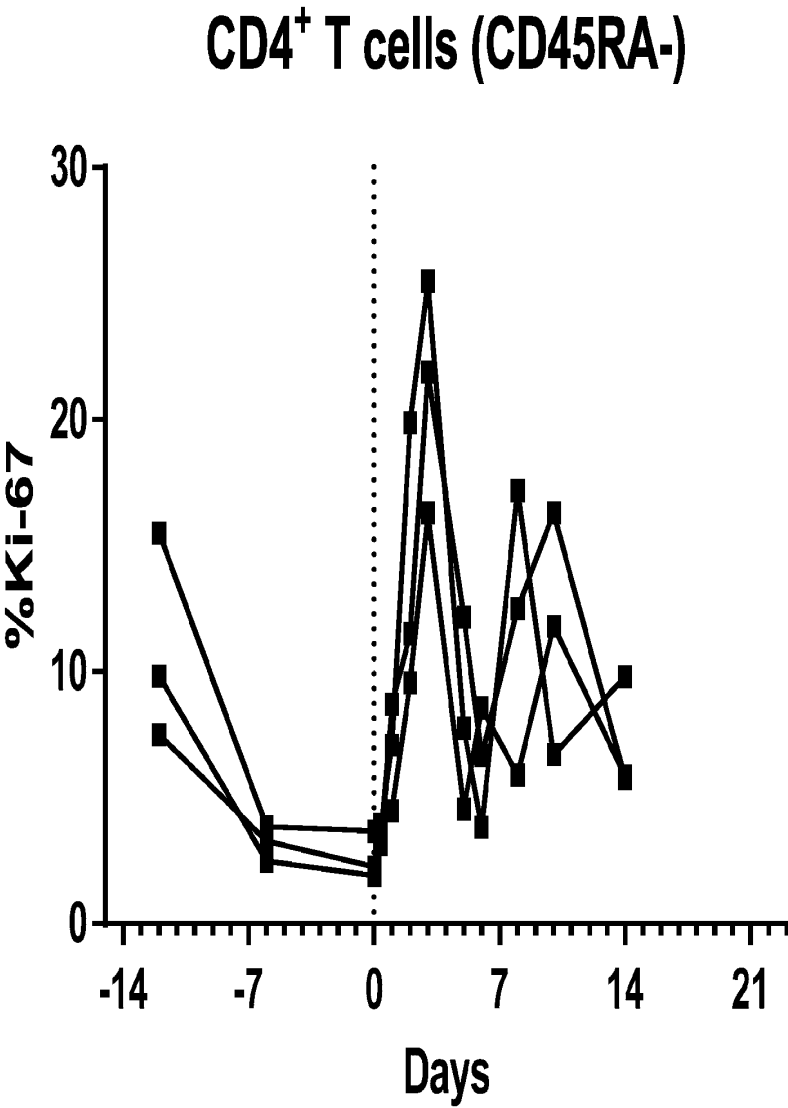


Figure 90A

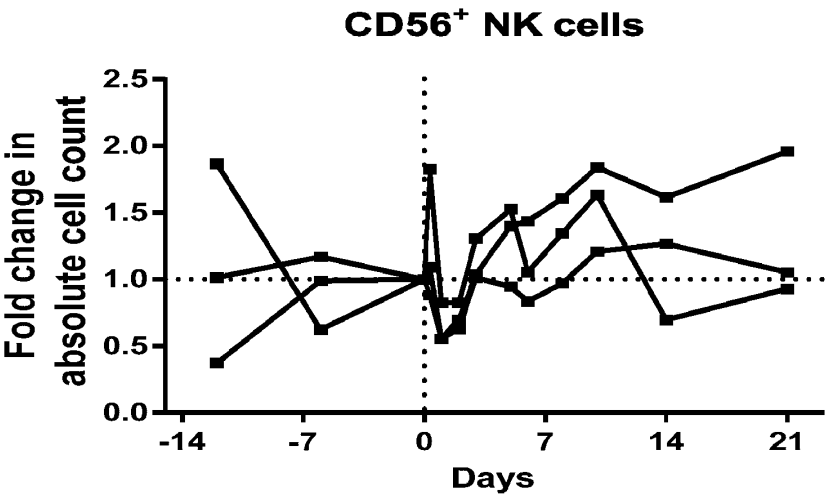


Figure 90B

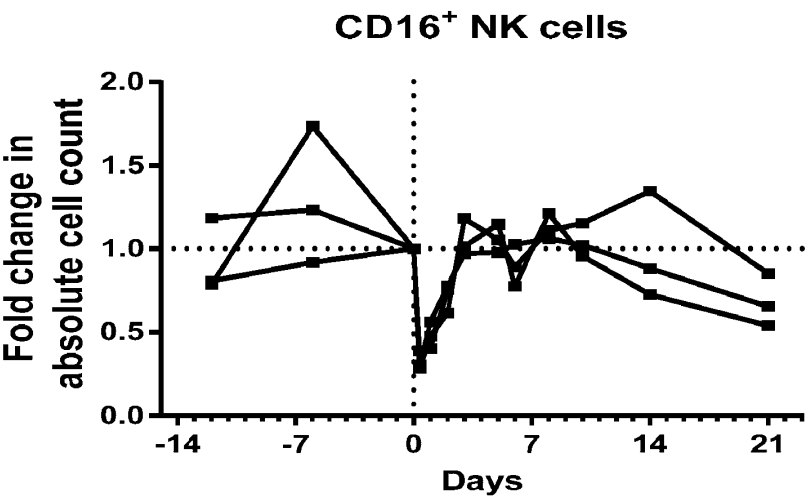


Figure 90C

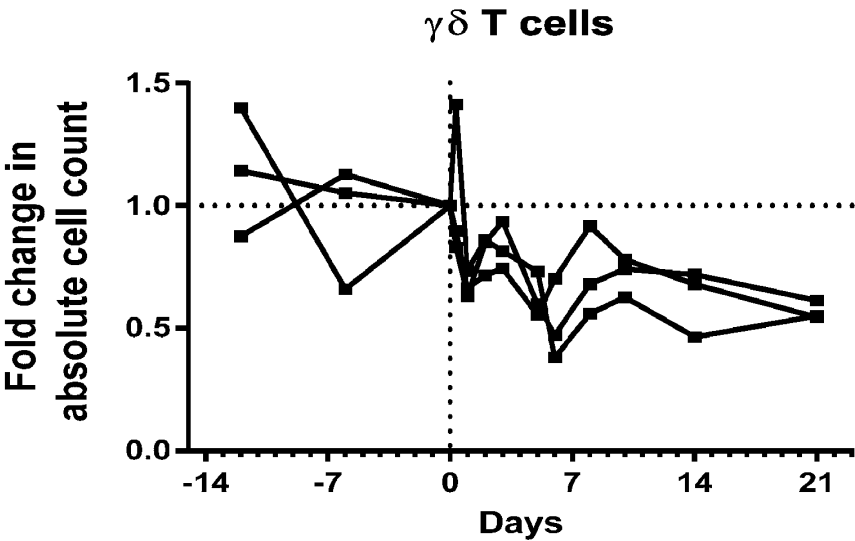


Figure 90D

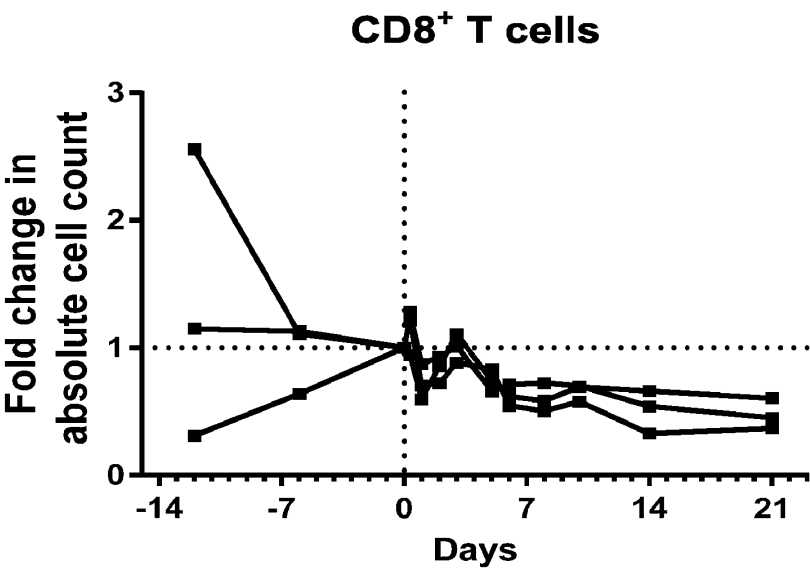


Figure 90E

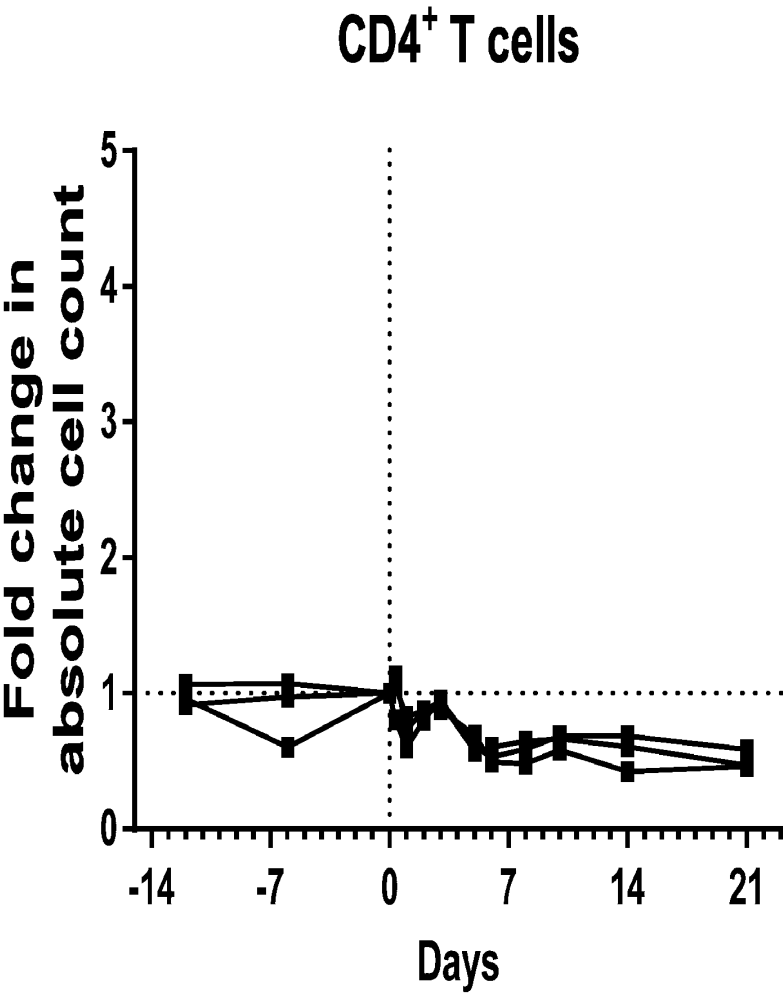


Figure 91A

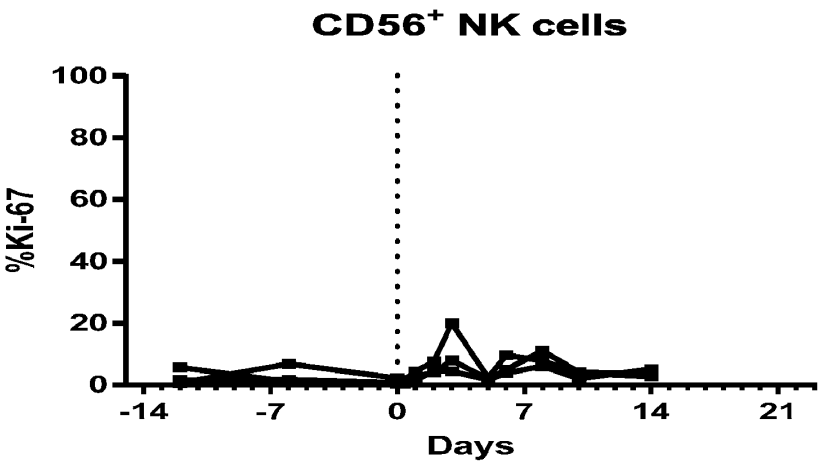


Figure 91B

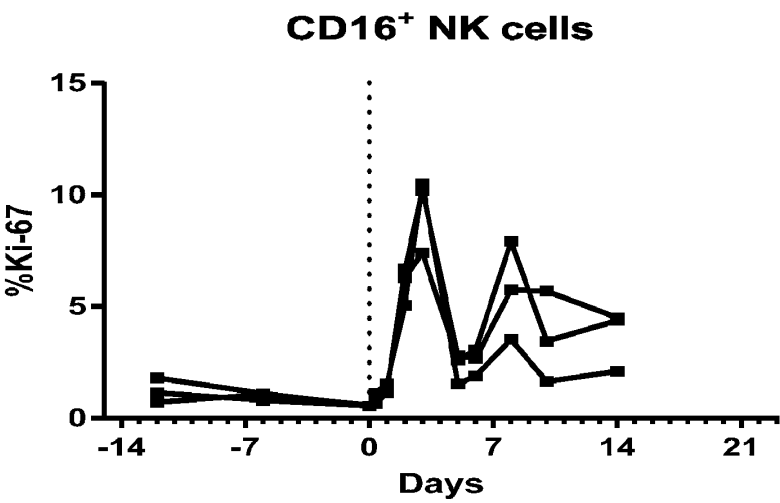


Figure 91C

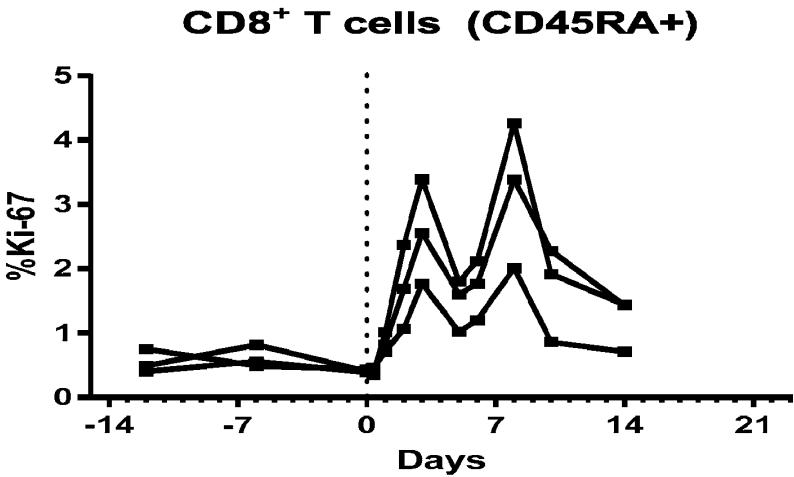


Figure 91D

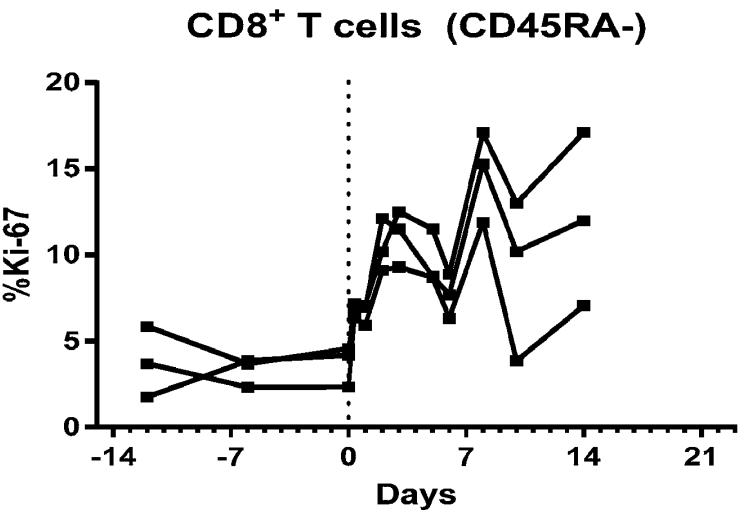


Figure 91E

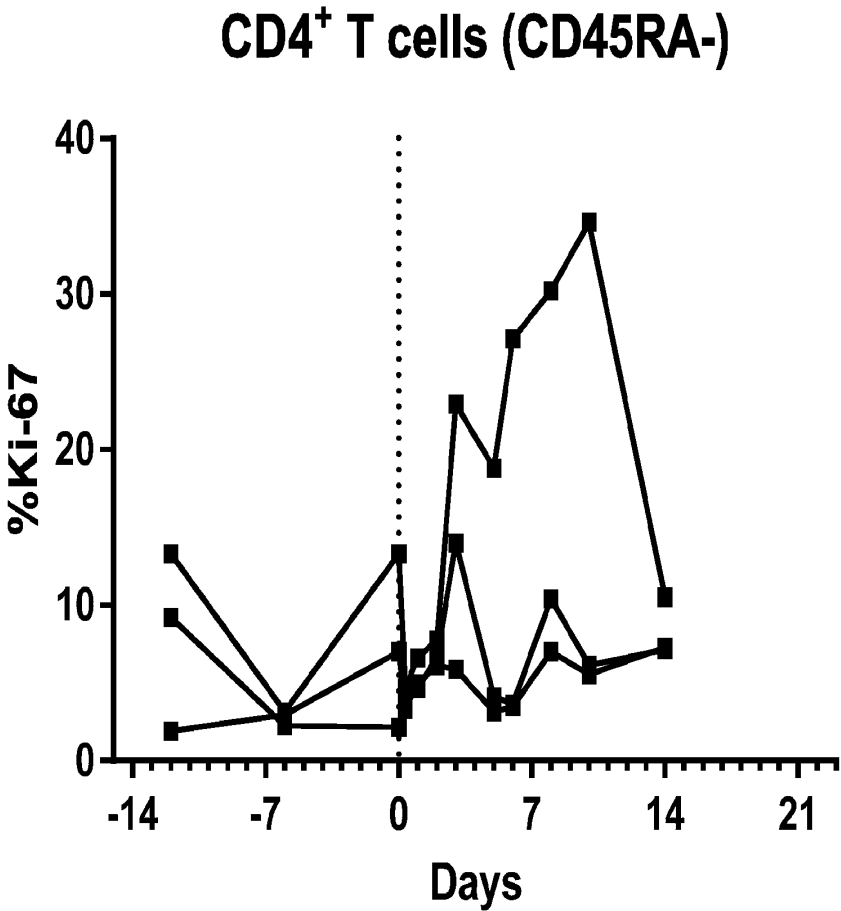


Figure 92A

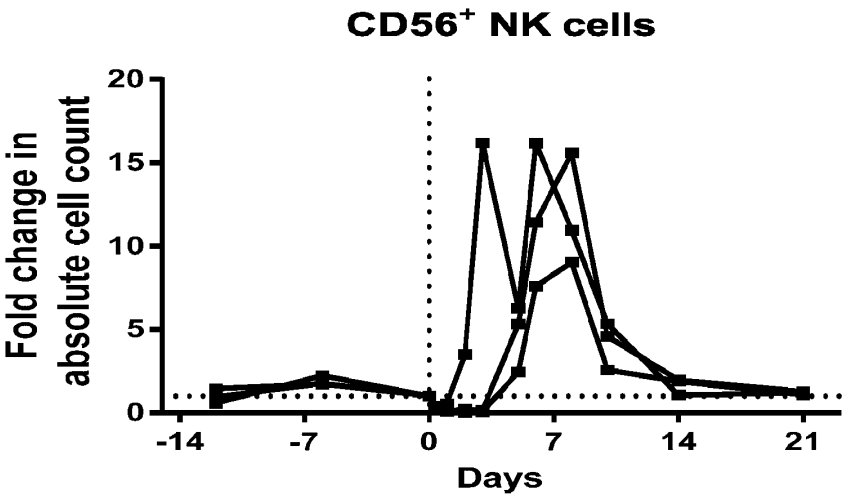


Figure 92B

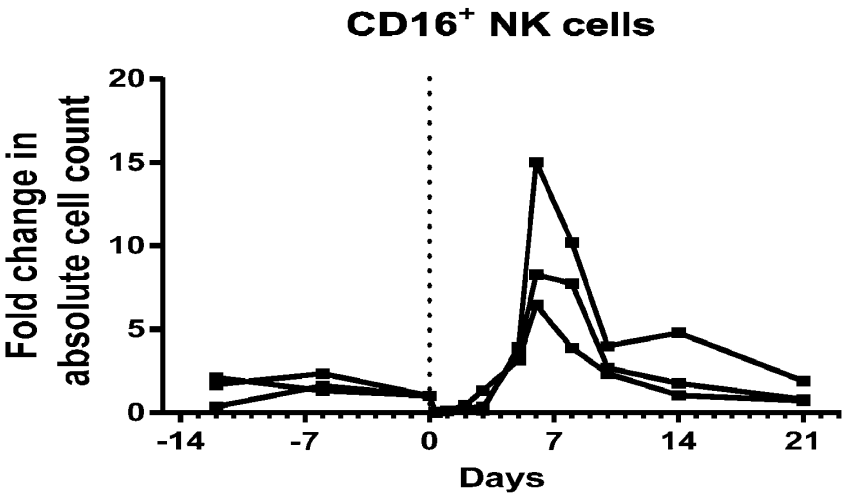


Figure 92C

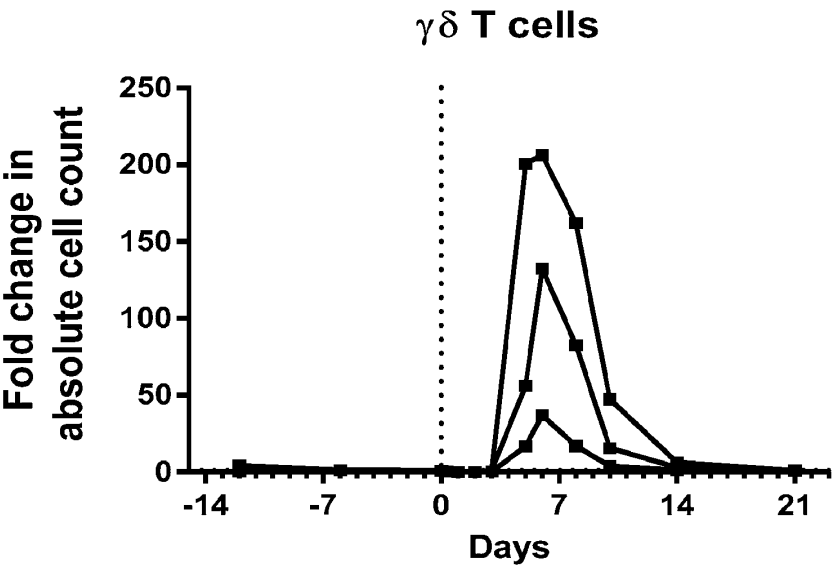


Figure 92D

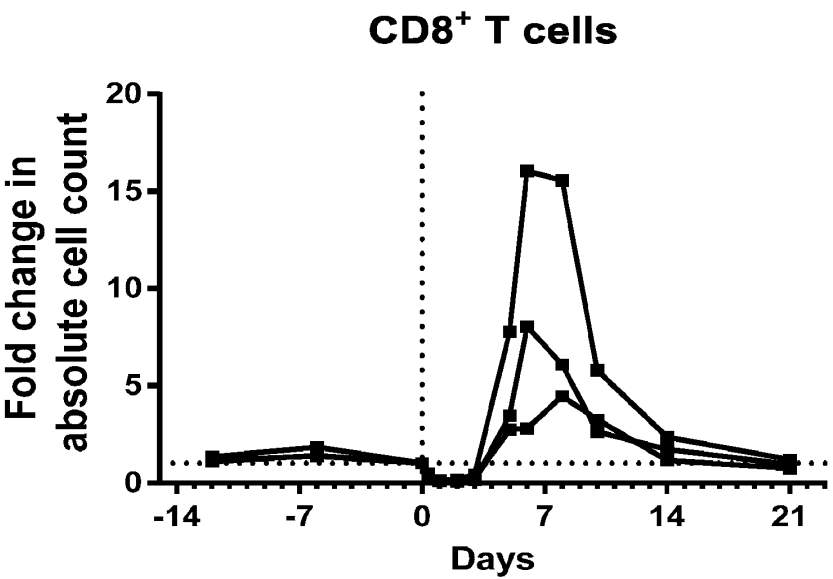


Figure 92E

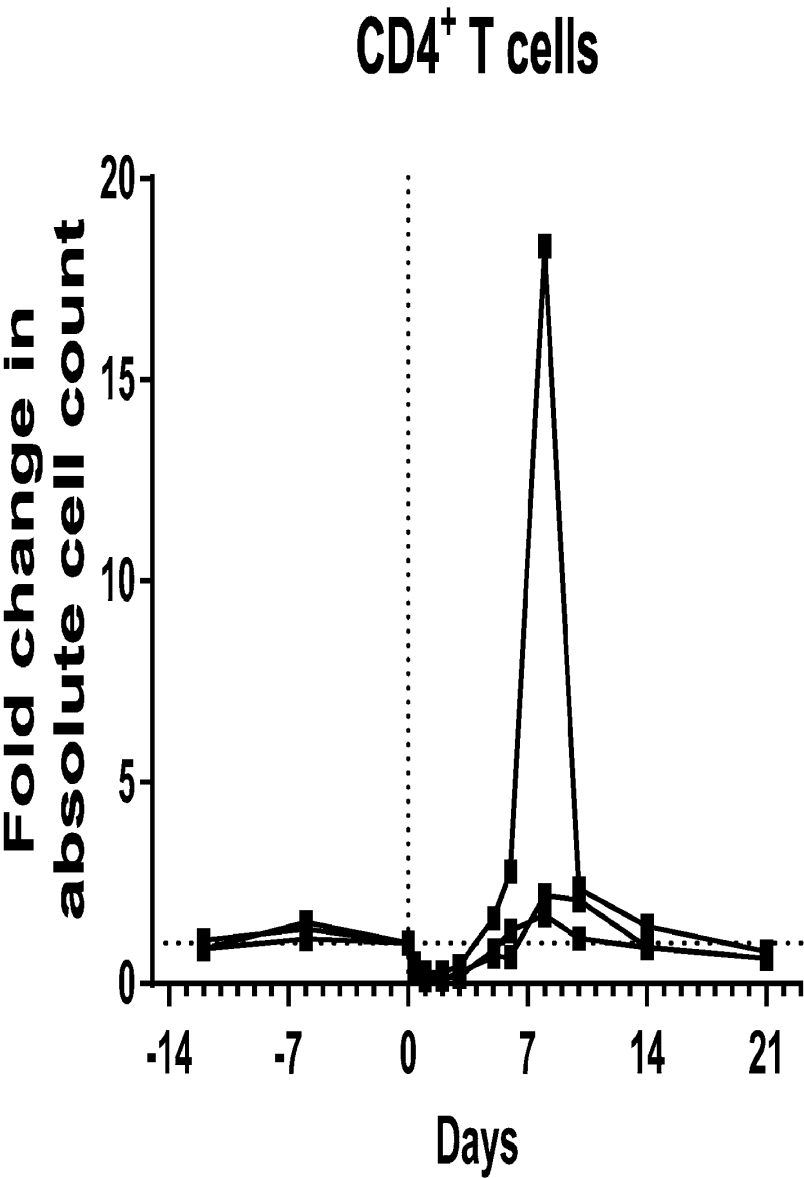


Figure 93A

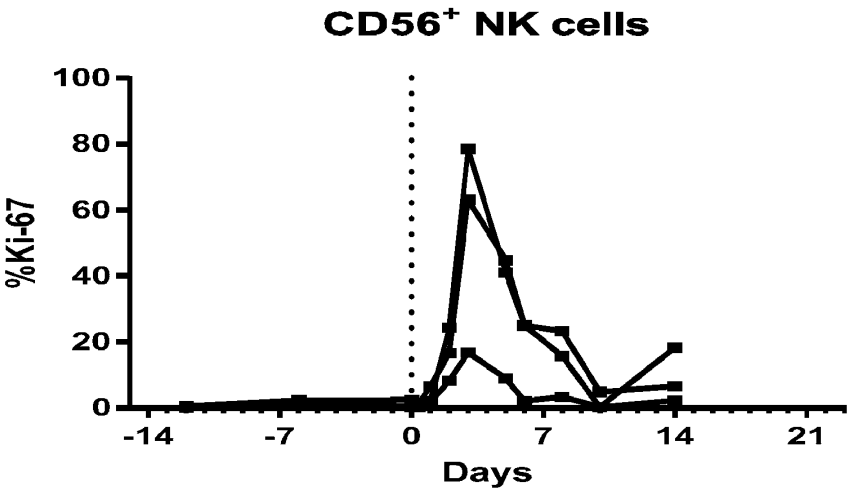


Figure 93B

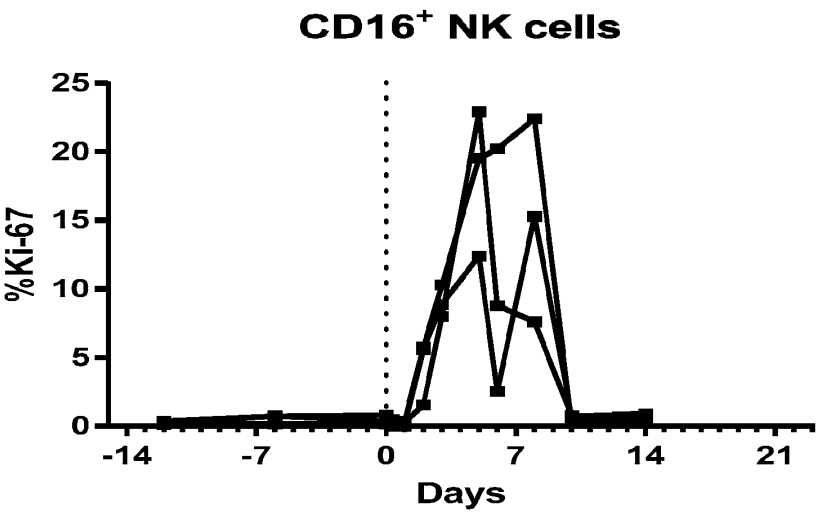


Figure 93C

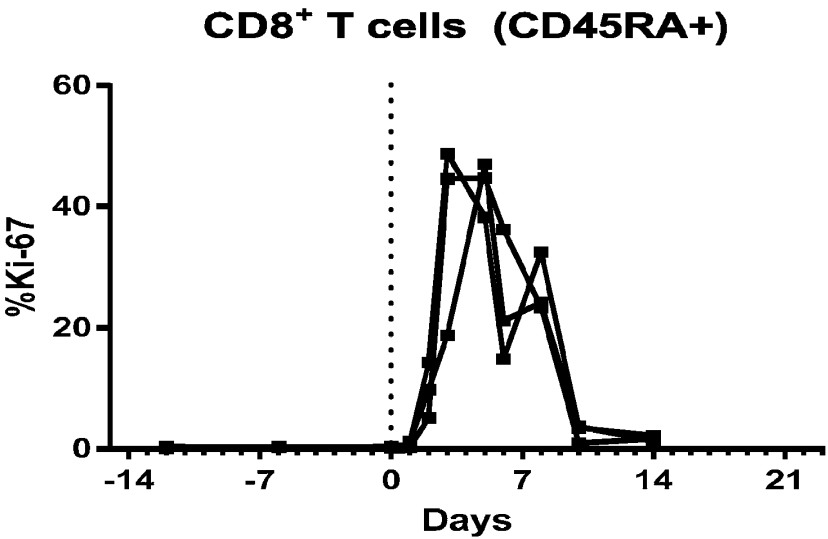


Figure 93D

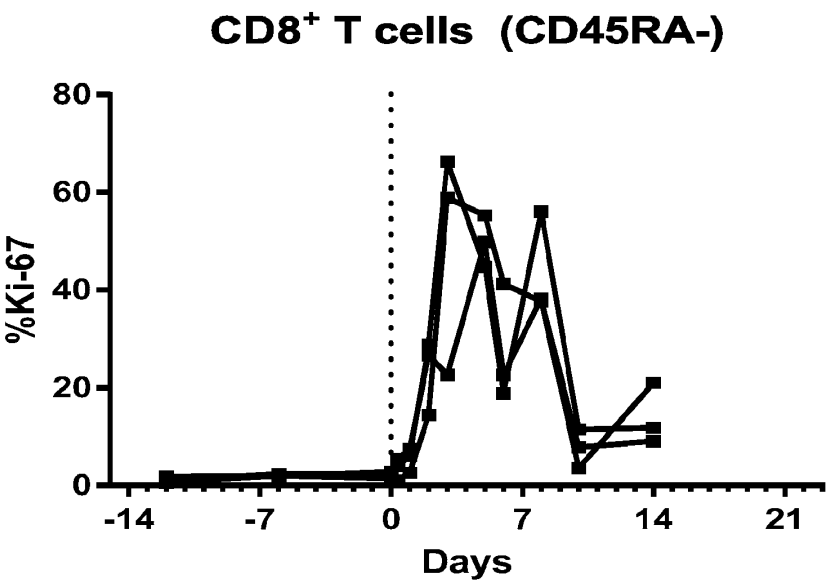


Figure 93E

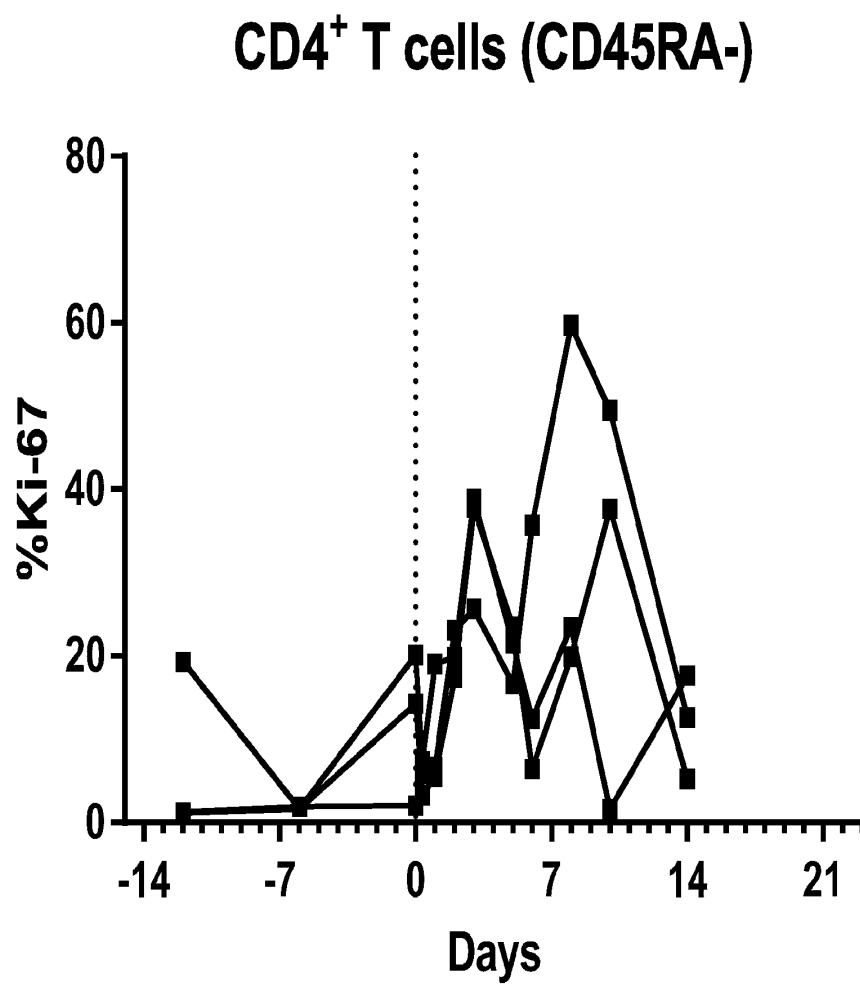


Figure 94A

>XENP023343 - human IL15 N65D (GGGGS)1-human IL15Ra(Sushi) (GGGGS)1 Fc(216) IgG1 pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S-
Fc(216) IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S

Chain 1 - human_IL15_N65D_(GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (18295) (SEQ ID NOS 358-360)
NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEEQGVDFSCSVLHEALHSHYTKQSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S
(17761) (SEQ ID NOS 361-363)
ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLT ECVLNKATNVAHWTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVDFSCSVLHEALHSHYTKQSLSLSPGK

>XENP023504 human IL15 Q108E (GGGGS)1-human IL15Ra(Sushi) (GGGGS)1 Fc(216) IgG1 pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S-
Fc(216) IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S

Chain 1 - human_IL15_Q108E_(GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 364-366)
NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEEQGVDFSCSVLHEALHSHYTKQSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S
(SEQ ID NOS 367-369)
ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLT ECVLNKATNVAHWTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVDFSCSVLHEALHSHYTKQSLSLSPGK

Figure 94B

>XENP024113 human IL15_N4D/N65D_(GGGGS)1-human IL15R α (Sushi)_(GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S-
Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S

Chain 1 – human_IL15_N4D/N65D_(GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 370-372)
 NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDITLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGVFSCSVLHEALHSHYTQKSLSLSPGK

Chain 2 – human_IL15R α (Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S
 (SEQ ID NOS 373-375)
 ITCPPPMSEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTCEVLNKATNVAHWTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDITLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGVFSCSVLHEALHSHYTQKSLSLSPGK

>XENP024301 human IL15_N4D/N65D-human IL15R α (Sushi) Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S-
Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S

Chain 1 – human_IL15_N4D/N65D_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 376-378)
 NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDITL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSD
 GSFFLYSKLTVDKSRWQQGVFSCSVLHEALHSHYTQKSLSLSPGK

Chain 2 – human_IL15R α (Sushi) Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S (SEQ ID
 NOS 379-381)
 ITCPPPMSEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTCEVLNKATNVAHWTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDITLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGVFSCSVLHEALHSHYTQKSLSLSPGK

Figure 94C

>XENP024306 human IL15_D30N/E64Q/N65D_(GGGGS)1-
human IL15Rα(Sushi)_(GGGGS)1_Fc(216)_IgG1_pl(-
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S-
Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S

Chain 1 – human_IL15_D30N/E64Q/N65D_(GGGGS)1_Fc(216)_IgG1_pl(-
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 382-384)
 NWVNVI SDLKKIEDLIQSMHIDATLYTESNVHPSCVTAMKCFLELQVISLES GDASIHDTVQDLII LANNLSL
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/ EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMI SRTP EVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTT
 PVLDS DGSFFLYSKLTVDKSRWEQGDVFS CSVLHEALHSHY TQKSLSLSPGK

Chain 2 – human_IL15Rα(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S
 (SEQ ID NOS 385-387)
 ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTP EVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTT PVLDS DGSFFLYSKLTVDKSRWQGNVFS CSVLHEALHSHY TQKSLSL
 PGK

>XENP024341 human IL15_N1D/N65D-human IL15Rα(Sushi) Fc(216)_IgG1_pl(-
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S-
Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S

Chain 1 – human_IL15_N1D/N65D-human_Fc(216)_IgG1_pl(-
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 388-390)
 DWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVQDLII LANNLSL
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTT PVLDS
 DGSFFLYSKLTVDKSRWEQGDVFS CSVLHEALHSHY TQKSLSLSPGK

Chain 2 – human_IL15Rα(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S (SEQ ID
 NOS 391-393)
 ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTP EVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTT PVLDS DGSFFLYSKLTVDKSRWQGNVFS CSVLHEALHSHY TQKSLSLSPGK

Figure 94D

>XENP025938 human_IL15Ra(sushi)_(GGGGS)5-human_IL15_N4D/N65D_(single-chain)-empty-
Fc_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S-
Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S

Chain 1 – human_IL15Ra(sushi)_(GGGGS)5-human_IL15_N4D/N65D_(single-chain)-_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 394-397)

ITCPPPMSEHADIWVKSYSLSRERYICNSGEKFKAGTSSLTECVLNKATINVAHWITPSLKCIK/SGGGSGGGSGGGSGGGSGGGG
S/NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVLSLESGDASTHDTVEDLIILANNLSLNGNVTESGCKEC
EELEEKNIKEFLQS FVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYV
DGEVHNATKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLTCDV
SGFYPSDIAVEWESDGPENNYKITTTPVLDSDGSFFLYSKLTVDKSFWEQGVFSCSVLHEALHSHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S (SEQ ID NO: 398)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGEVHNATKPREEQYNSTYRVVSVL
TVLHQDWLNGKEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKITTTP
VLDSDGSFFLYSKLTVDKSFWEQGVFSCSVLHEALHSHYTQKSLSLSPGK

Figure 95

>XENP024383 IL15 Q108E (non-covalent)-human IL15Ra(Sushi) empty-Fc Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S/M428L/N434S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q/M428L/N434S

Chain 1 - IL15_Q108E (SEQ ID NO: 399)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQS FVHIVEMFINTS

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_pl(-)

) Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 400-402)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPPKPDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFS CSVLHEALHSHYTQKSLSLSPGK

Chain 3 – empty_ Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S (SEQ ID NO: 403)

EPKSSDKTHITCPPCPAPPVAGPSVFLFPPPKPDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFIYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVLHEALHSHYTQKSL
SLSPGK

Figure 96

**>XENP024346 human_IL15(non-covalent; Q108E)-
human_IL15Ra(Sushi) Fc(216)_IgG1_C220S/PVA_/S267K/M428L/N434S**

Chain 1 – human_IL15Ra(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/M428L/N434S (SEQ ID NOS 404-406)
ITCPPPMSEVHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVHLHQLDNLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCSVLHEALHSHYTQKSLSLSPGK

Chain 2 – human_IL15(non-covalent; Q108E) (SEQ ID NO: 407)
NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLESQDASIHDTVENLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS

**>XENP024351 human_IL15(non-covalent; N4D/N65D)-
human_IL15Ra(Sushi) Fc(216)_IgG1_C220S/PVA_/S267K/M428L/N434S**

Chain 1 – IL15(N4D/N65D) (SEQ ID NO: 408)
NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLESQDASIHDTVEDLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/M428L/N434S (SEQ ID NOS 409-411)
ITCPPPMSEVHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITPSLKCIR/EPKSSDKTHTCPPCPAPPVAGPSV
FLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVHLHQLDNLNGKEYKCKVSNKALP
APIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVLHEALHSHYTQKSLSLSPGK

Figure 97A

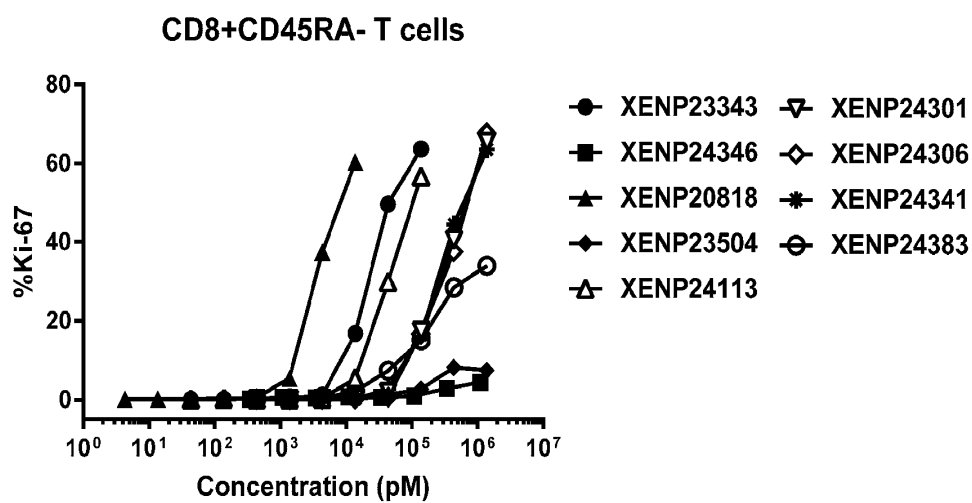


Figure 97B

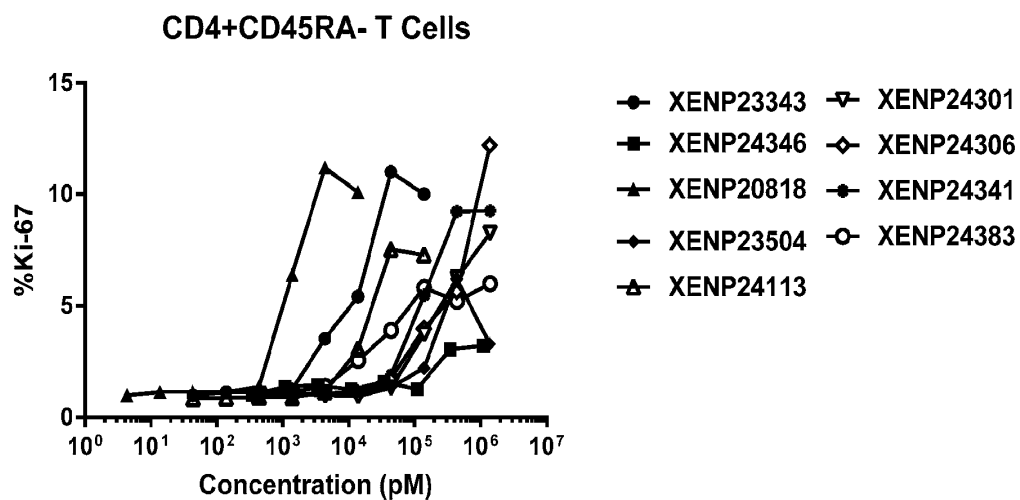


Figure 97C

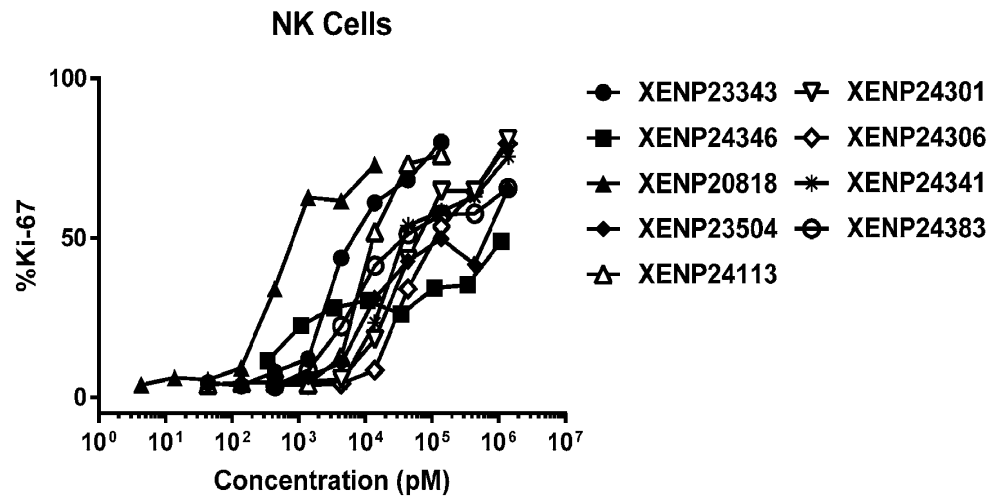


Figure 98A

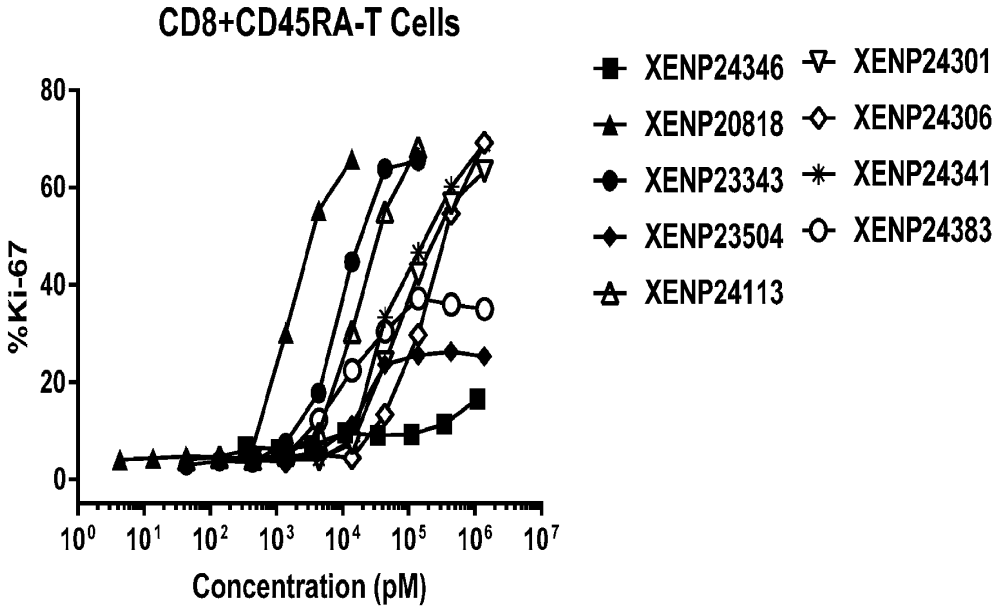


Figure 98B

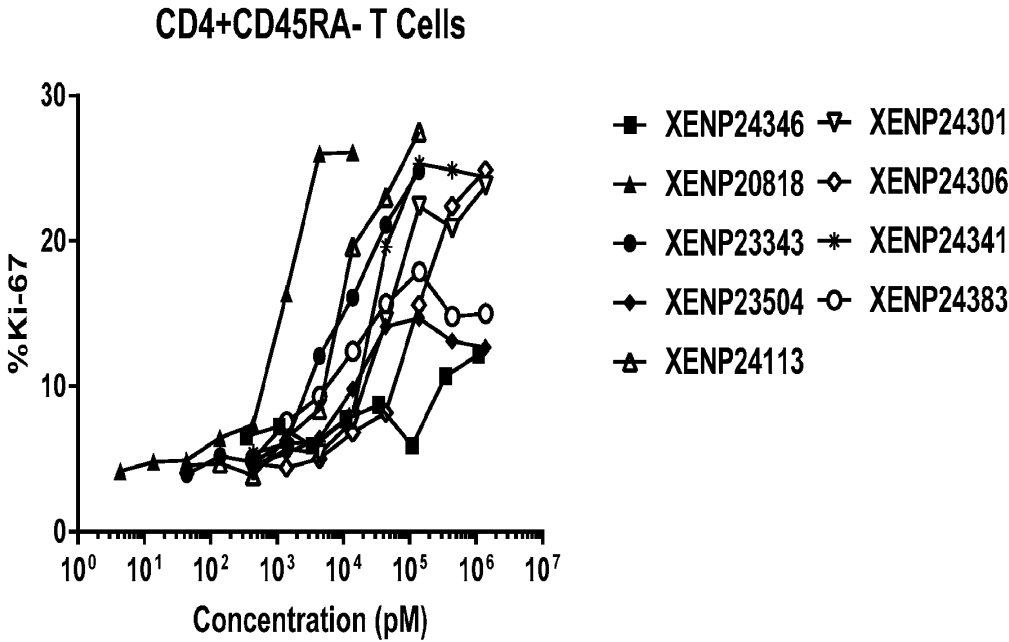


Figure 98C

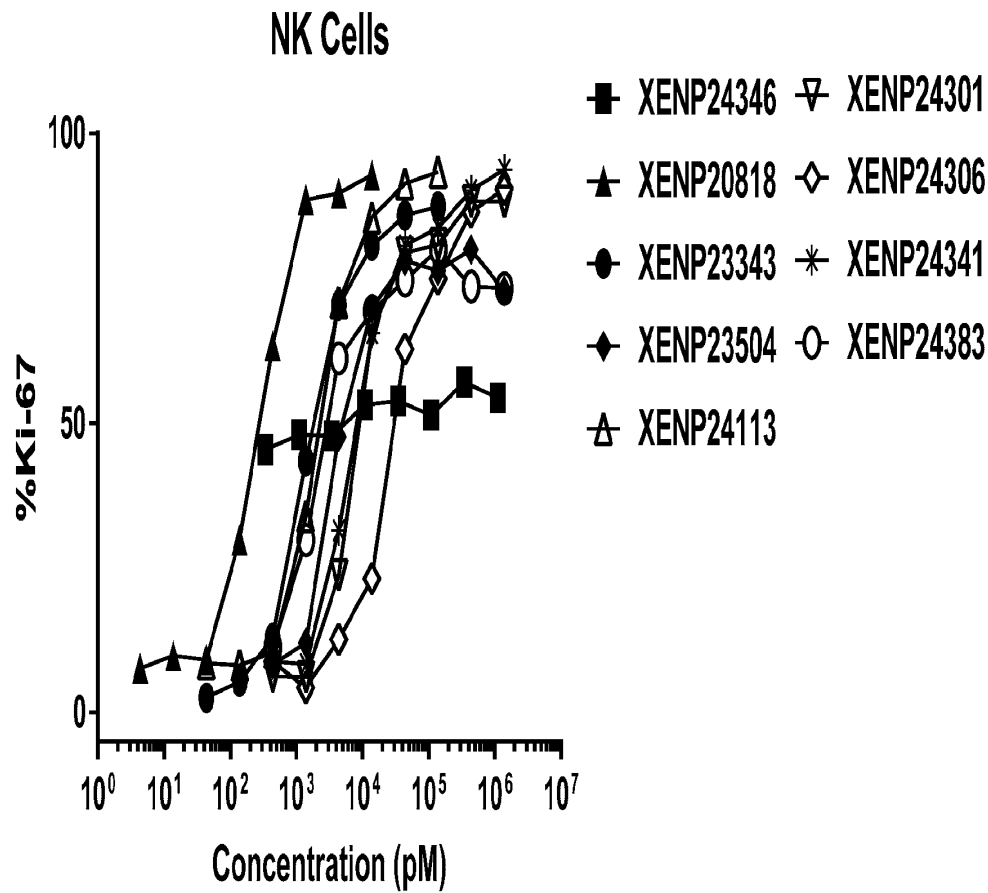


Figure 99A

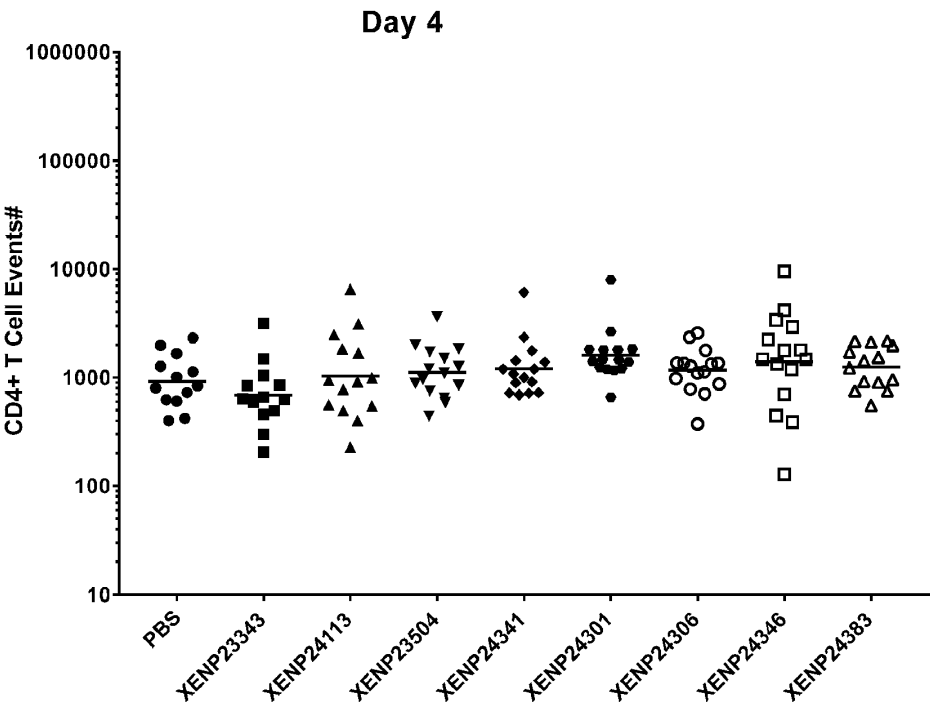


Figure 99B

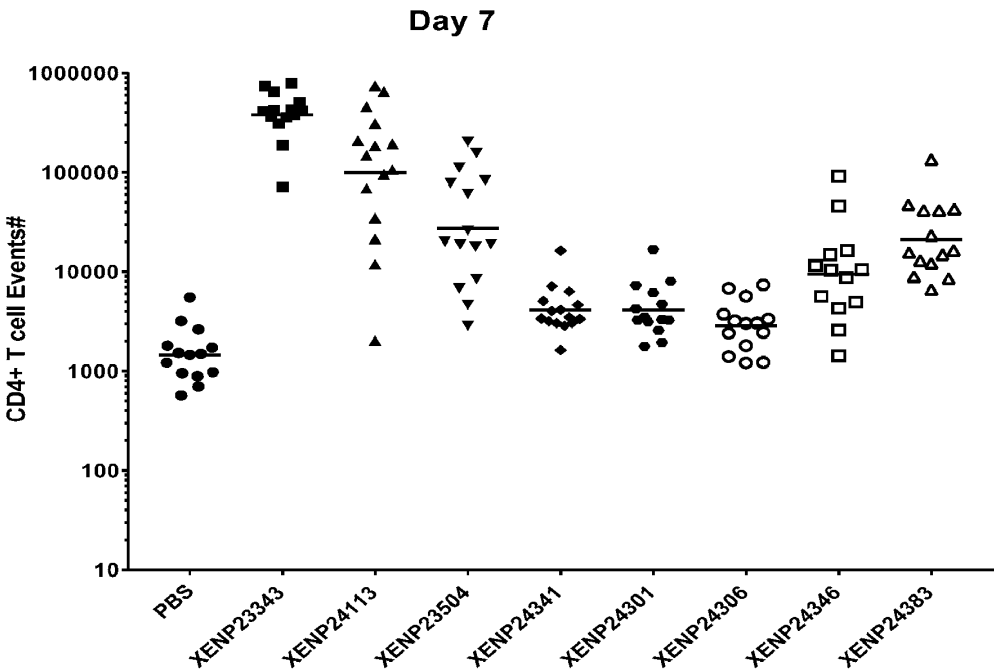


Figure 99C

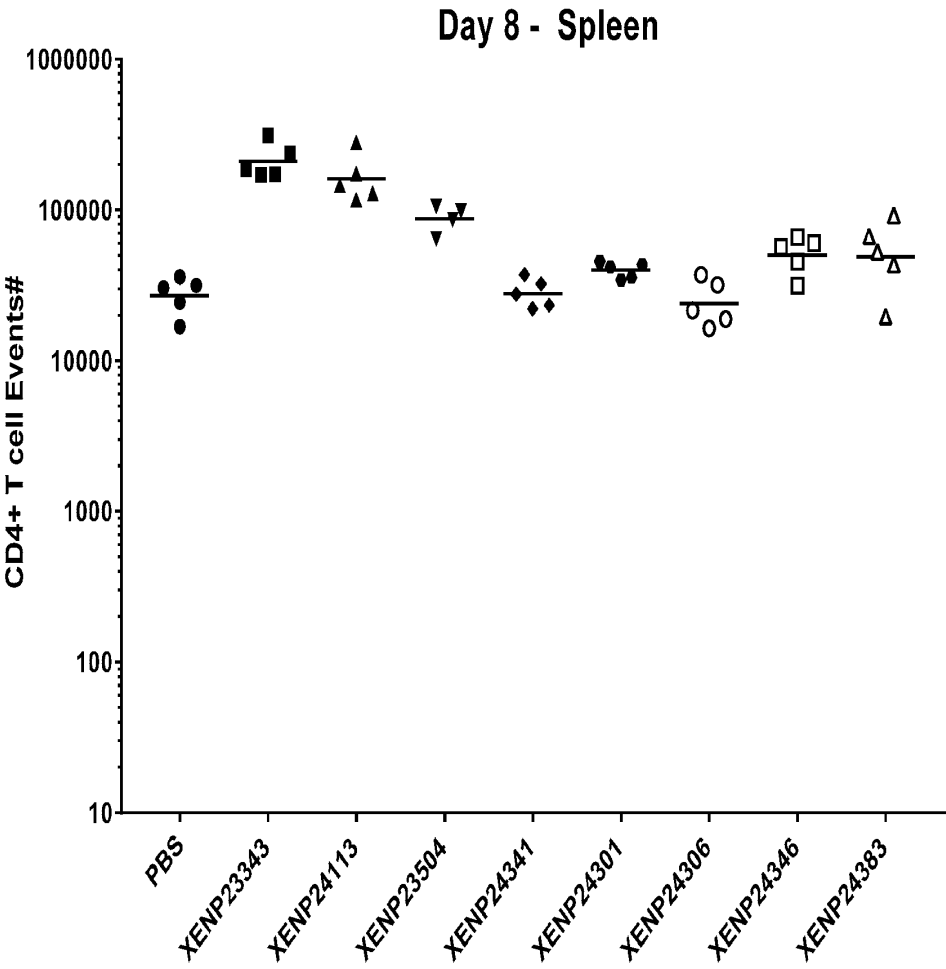


Figure 100A

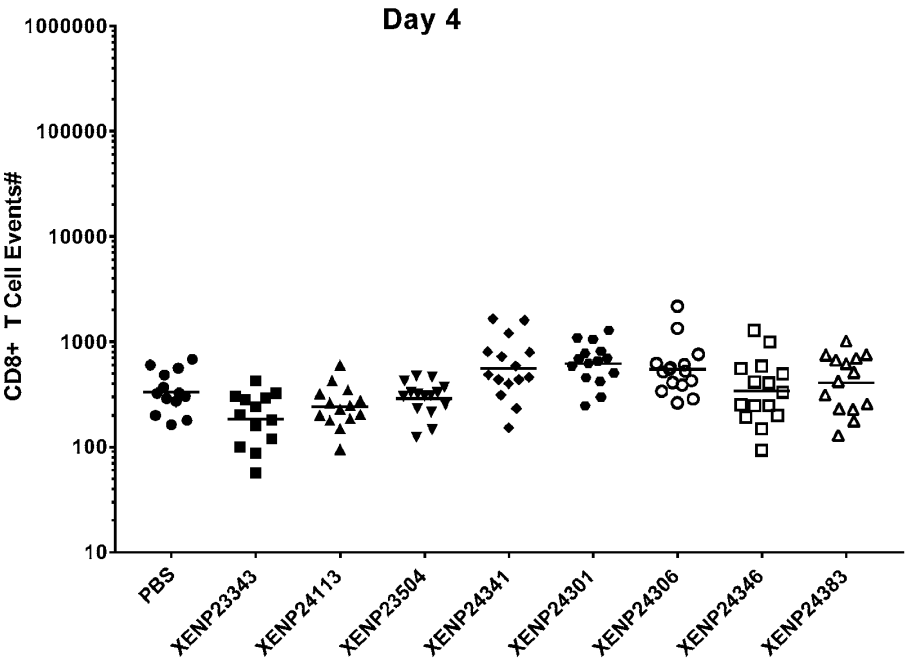


Figure 100B

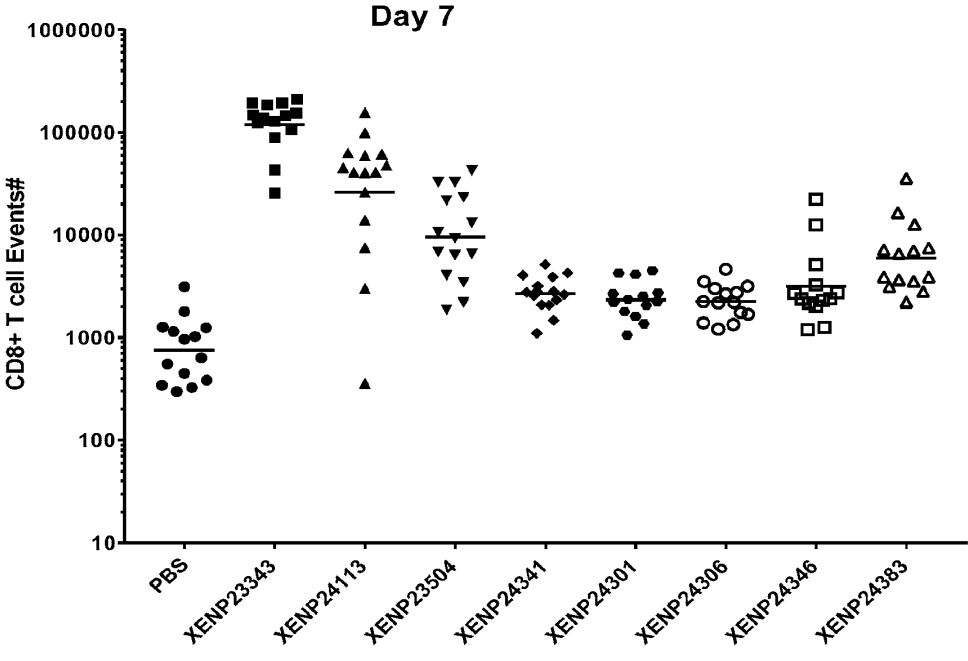


Figure 100C

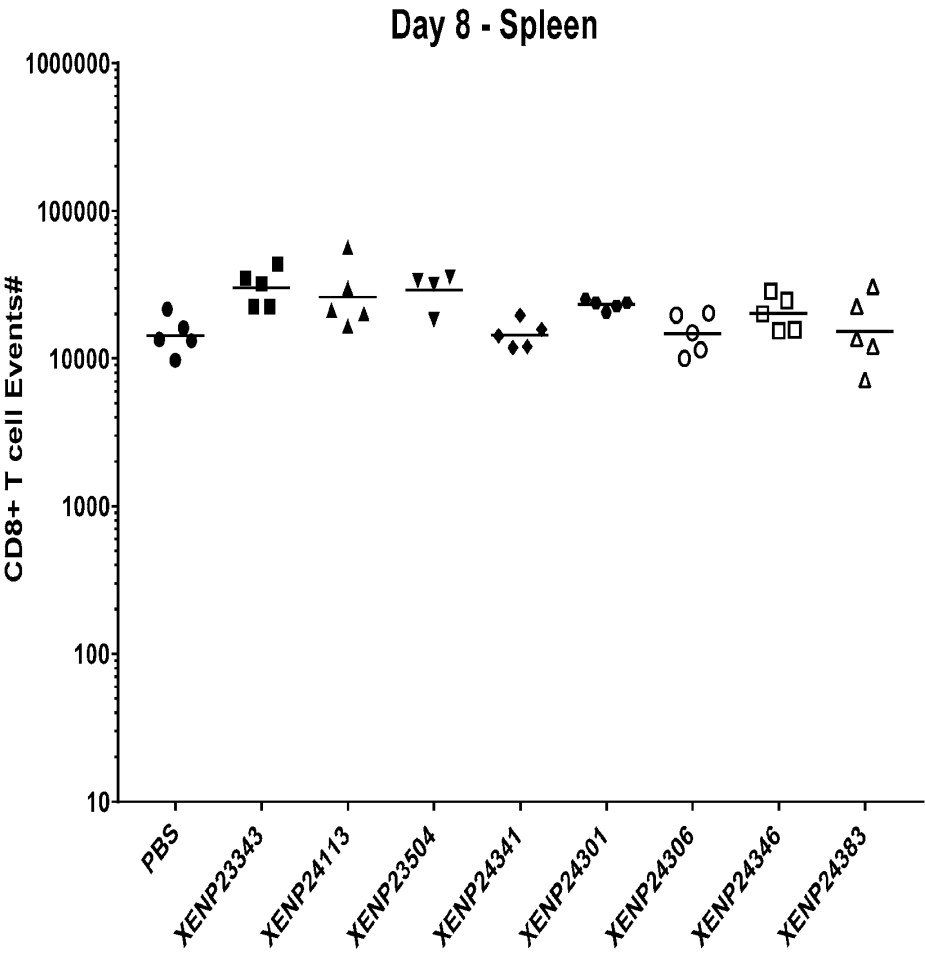


Figure 101A

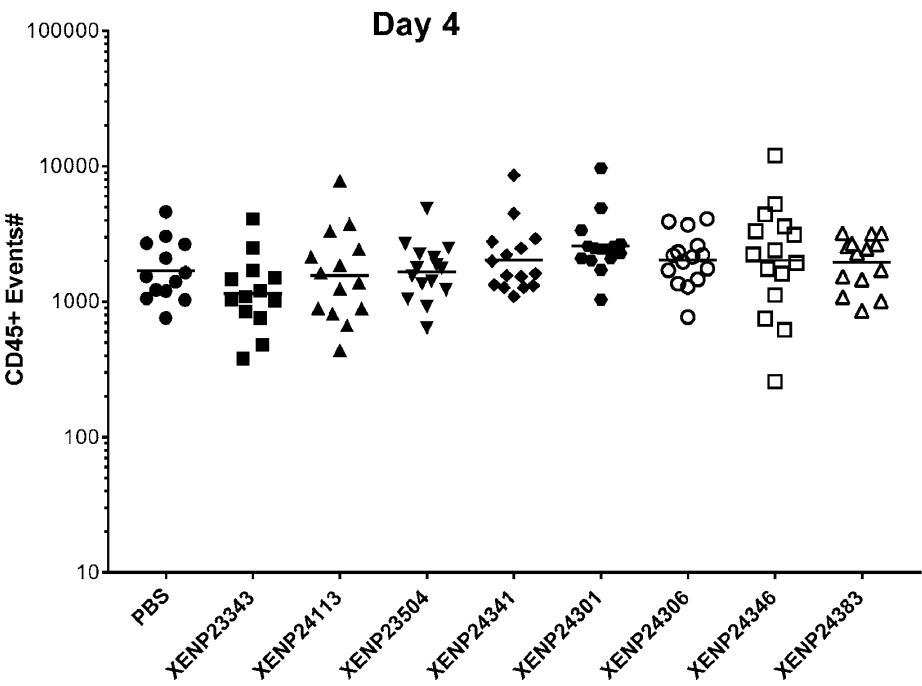


Figure 101B

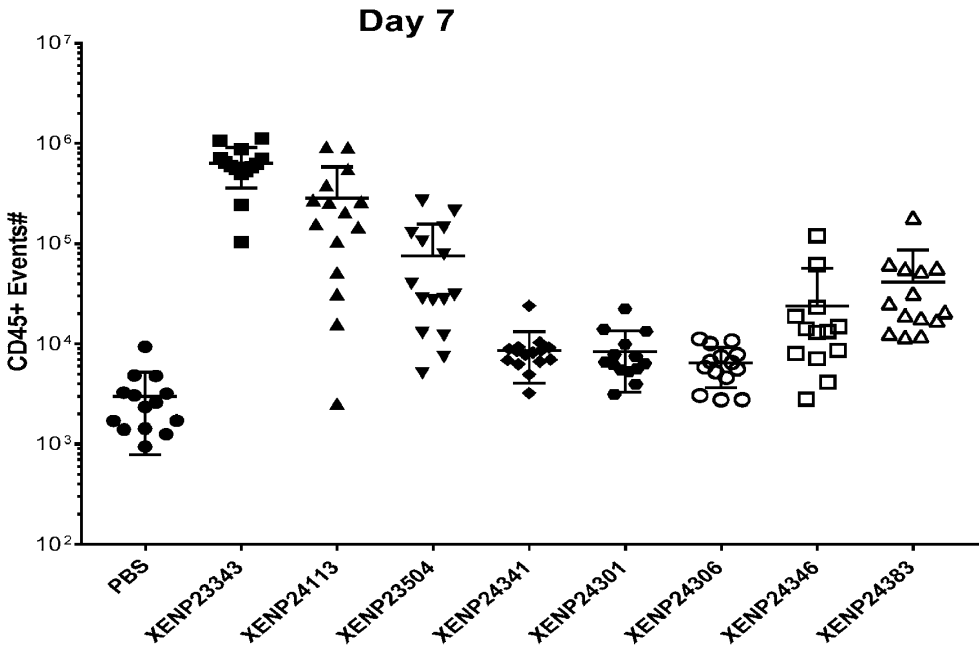


Figure 101C

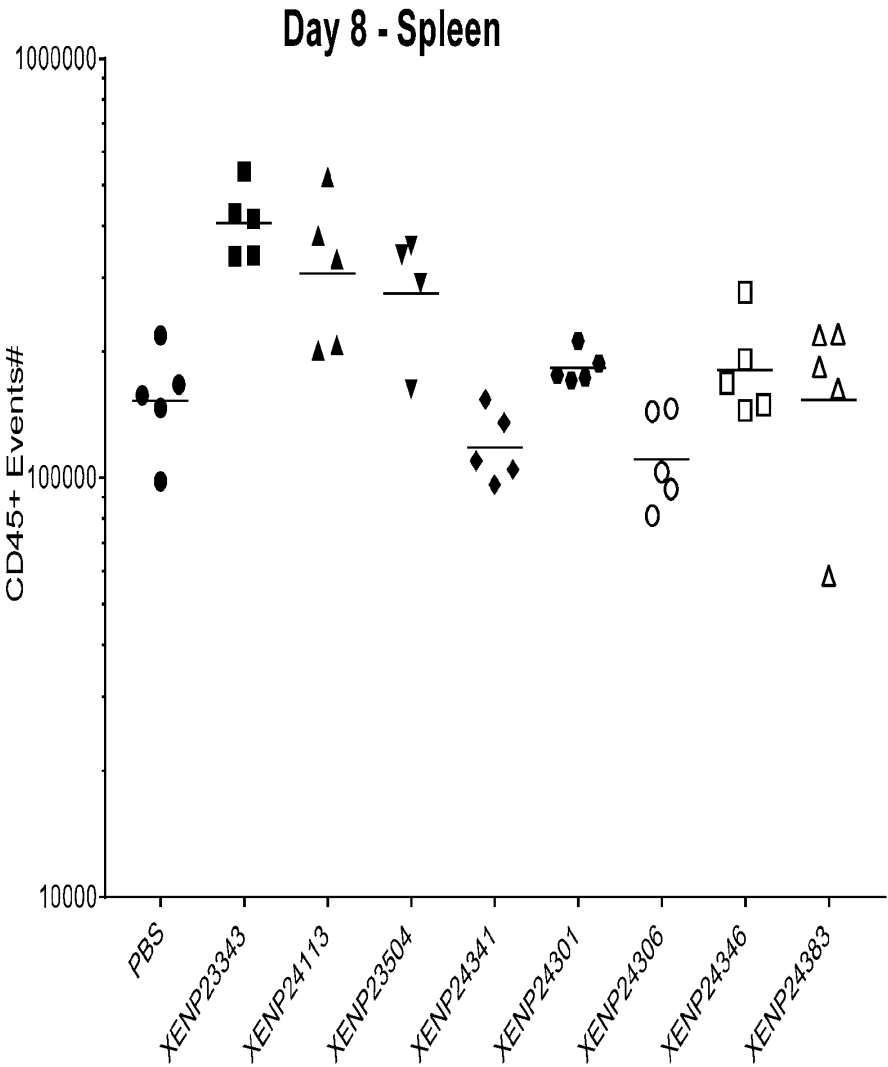


Figure 102A

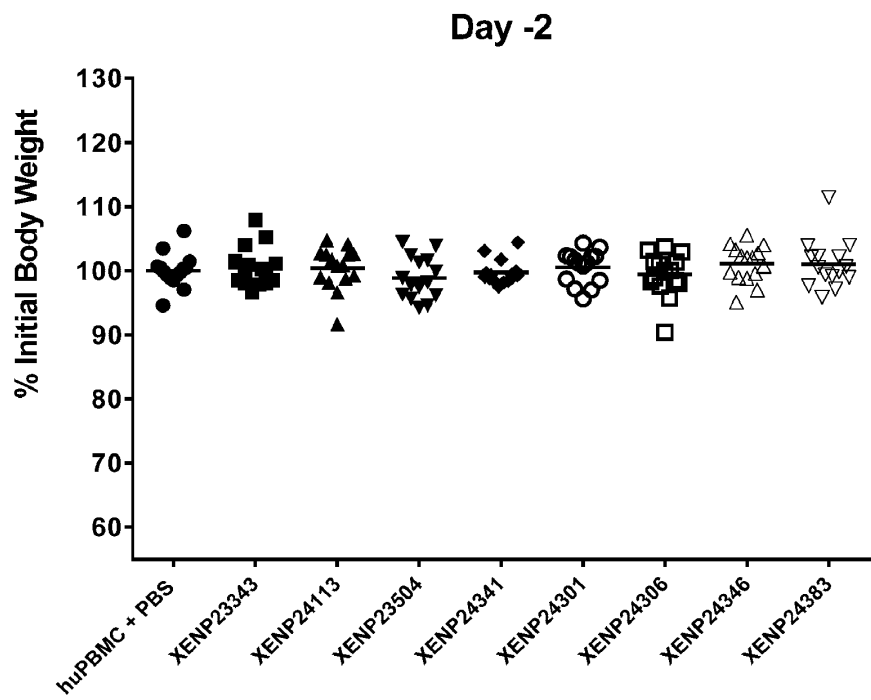


Figure 102B

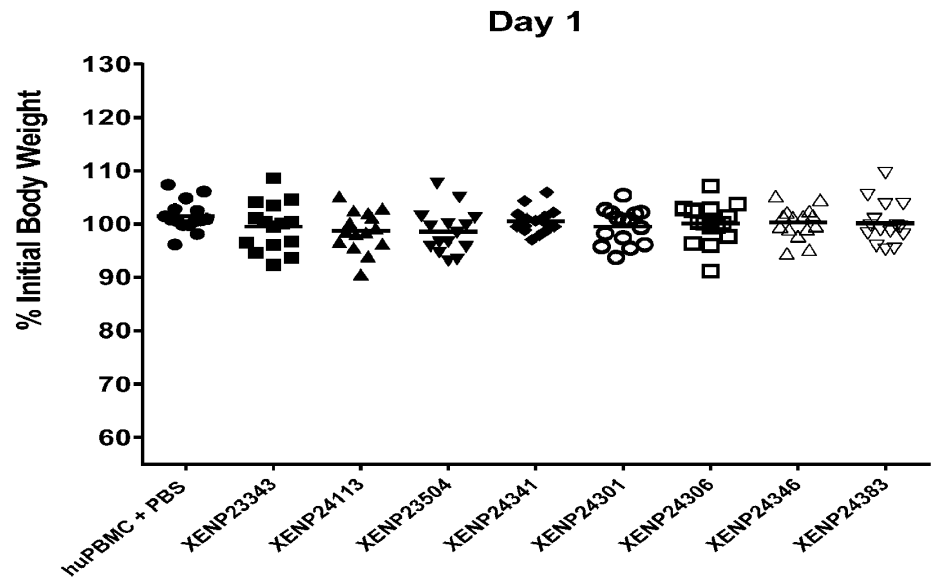


Figure 102C

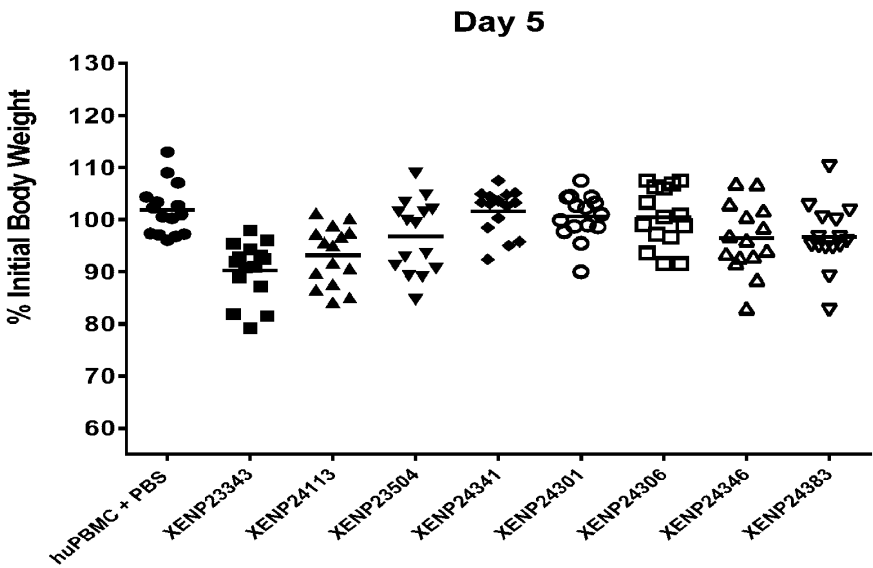


Figure 102D

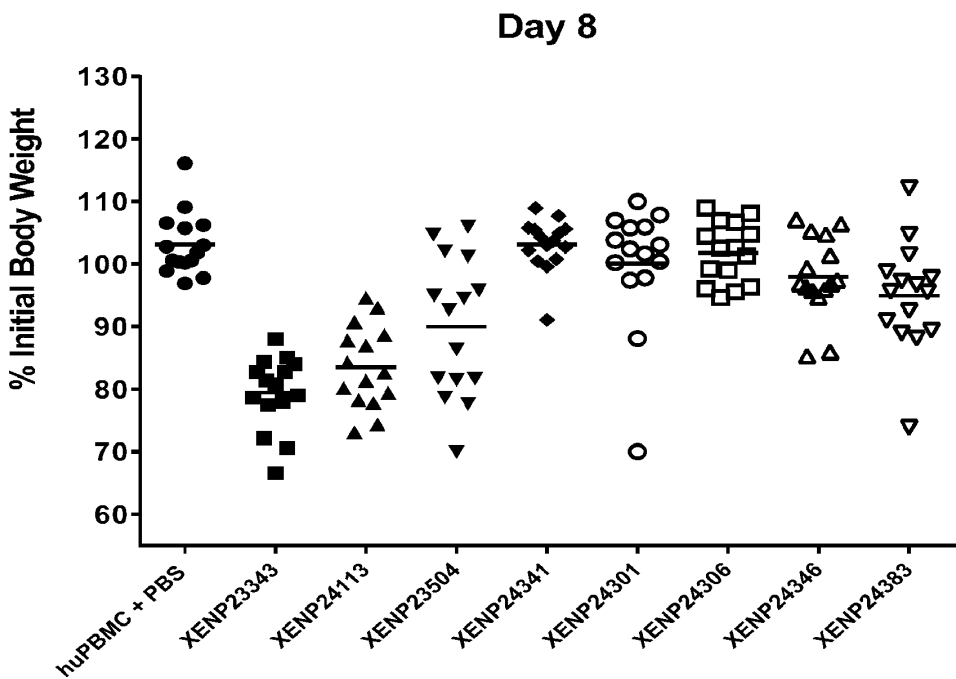


Figure 102E

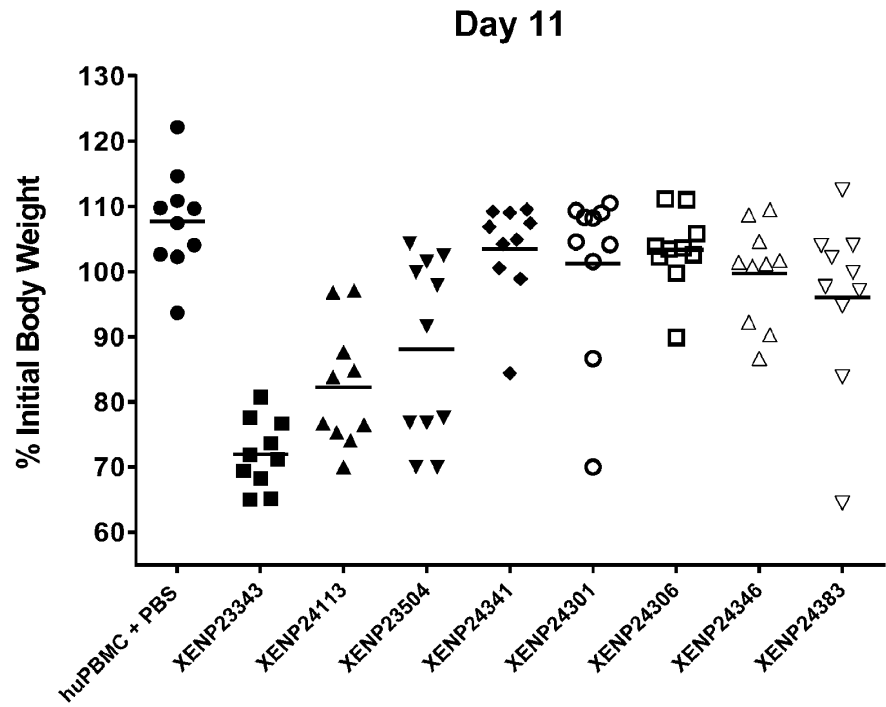


Figure 102F

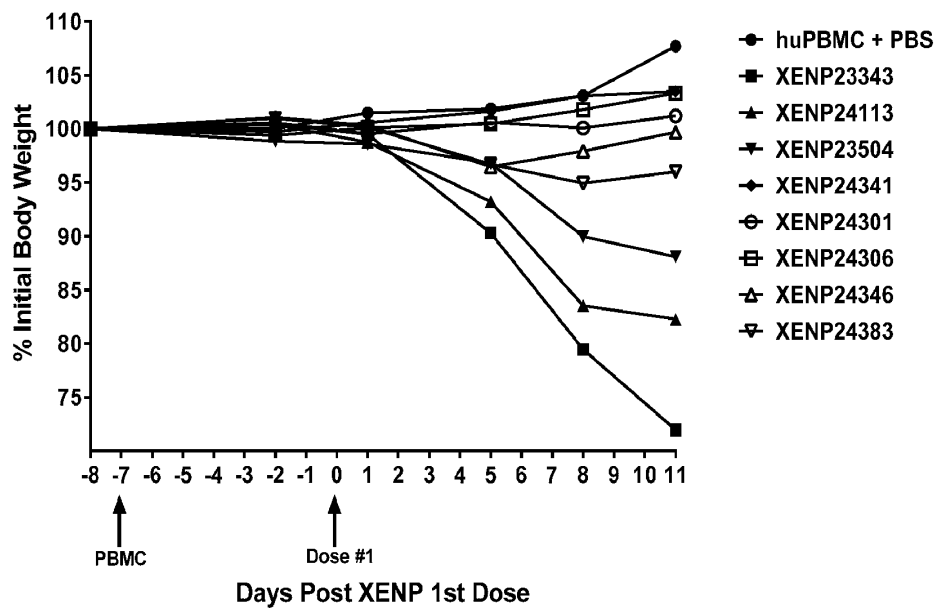


Figure 103A

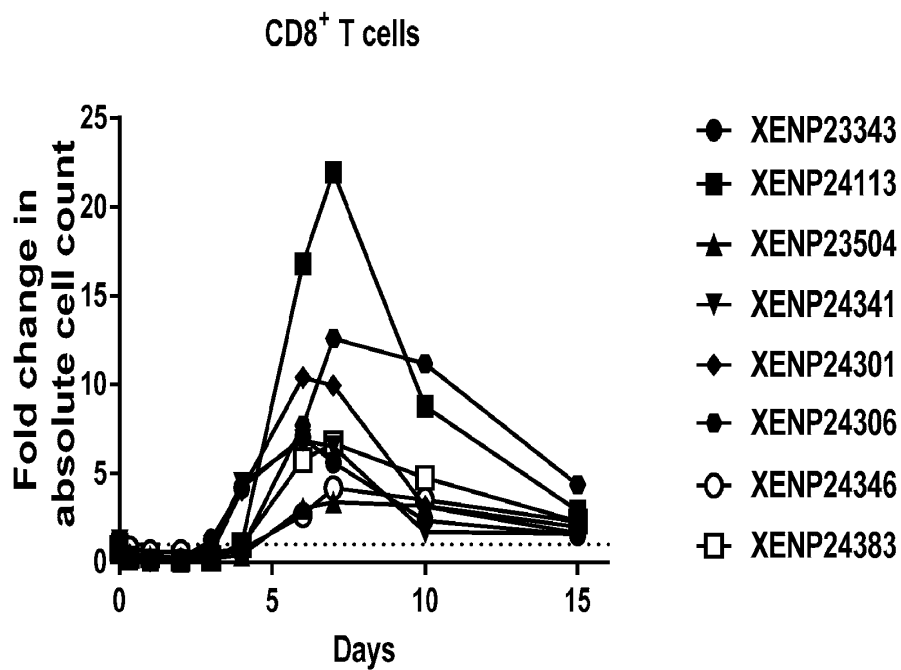


Figure 103B

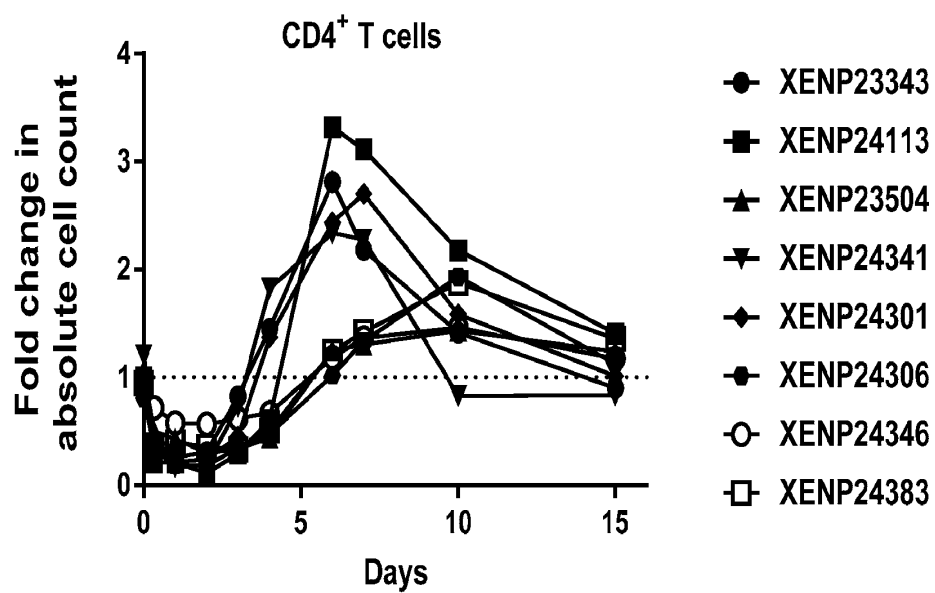


Figure 103C

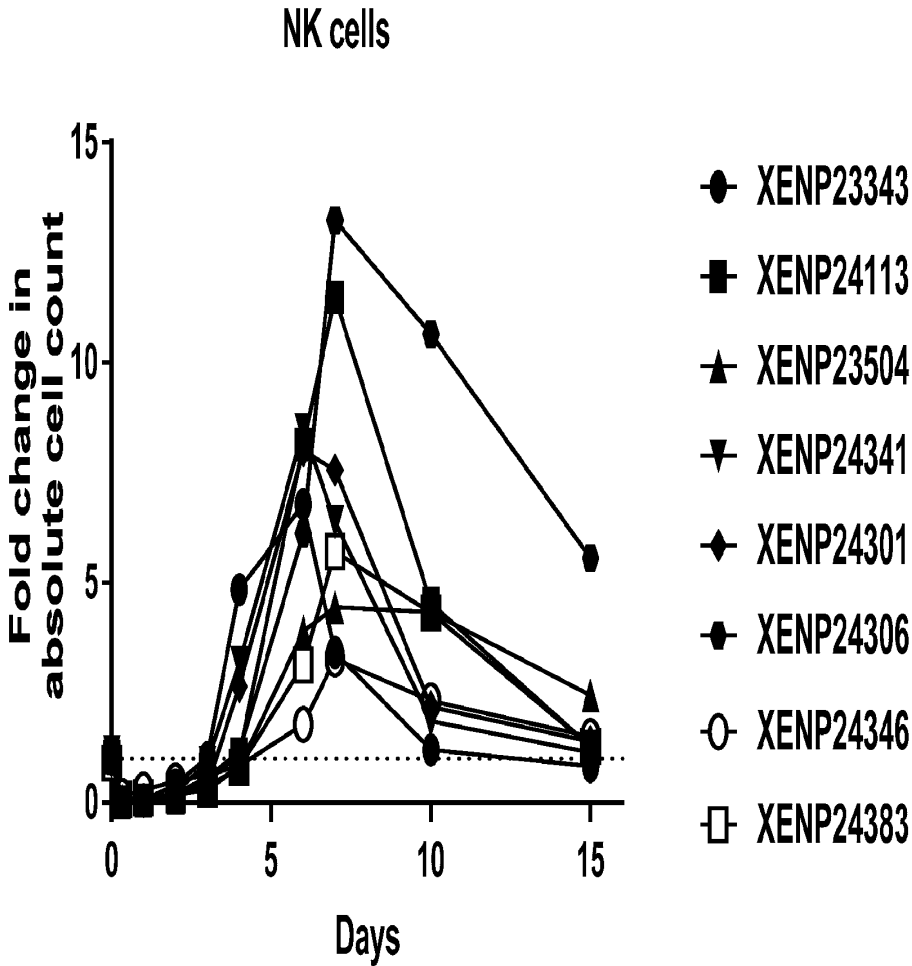


Figure 104A

>XENP20818 – human IL15-(GGGGS)₁ x human IL15Rα(Sushi)-(GGGGS)₁ Fc heterodimer**Chain 1 - human_IL15_(GGGGS)₁_Fc(216)_IgG1_pl(-****)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (15902) (SEQ ID NOS 412-414)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLIILANNSLSSNGN
VTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI
 SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
 LPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGGQPENNYKTTTPVLDSDGSF
 FLYSKLTVDKSRWEQGDVFCFSVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)_(GGGGS)₁_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q**(15908) (SEQ ID NOS 415-417)**

ITCPPMMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPKSSD
KTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYN
 STYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFYP
 SDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

>XENP20819 – human IL15-(GGGGS)₁ x human IL15Rα(Sushi)-(GGGGS)₄ Fc heterodimer**Chain 1 - human_IL15_(GGGGS)₁_Fc(216)_IgG1_pl(-****)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (15902) (SEQ ID NOS 418-420)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLIILANNSLSSNGN
VTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI
 SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
 LPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGGQPENNYKTTTPVLDSDGSF
 FLYSKLTVDKSRWEQGDVFCFSVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)_(GGGGS)₄_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q**(15909) (SEQ ID NOS 421-423)**

ITCPPMMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGGSG
GGGSGGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDG
 VEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQ
 MTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEA
 LHNHYTQKSLSLSPGK

Figure 104B

>XENP21471 – human IL15 x human IL15R α (Sushi)-(GGGGS)₁ Fc heterodimer

Chain 1 - human_IL15-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (16479) (SEQ ID NOS 424-426)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNVTES
GCKECEEELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVK
HEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREP
QVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEQGDVFSC
SVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₁-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908) (SEQ ID NOS 427-429)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGGS/EPKSSDKTHT
CPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSV
LTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVLTCLVKGFPYPSDIAVEWESNG
QPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

>XENP21472 – human IL15-(GGGGS)₁ x human IL15R α (Sushi) Fc heterodimer

Chain 1 - human_IL15_(GGGGS)₁-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (15902) (SEQ ID NOS 430-432)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNVTES
GCKECEEELEEKNIKEFLQSFVHIVQMFINITS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTC
VVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAK
GQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEQ
GDVFSCFSVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (16481) (SEQ ID NOS 433-435)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/EPKSSDKTHTCPPCPA
PPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQ
DWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVLTCLVKGFPYPSDIAVEWESNGQPENN
YKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

>XENP21473 – human IL15-(GGGGS)₁ x human IL15R α (Sushi)-(GGGGS)₃ Fc heterodimer

Chain 1 - human_IL15_(GGGGS)₁-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (15902) (SEQ ID NOS 436-438)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNVTES
GCKECEEELEEKNIKEFLQSFVHIVQMFINITS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTC
VVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAK
GQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEQ
GDVFSCFSVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₃-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (16483) (SEQ ID NOS 439-441)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGGSGGGGSGGGG
S/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVLTCLVKGFPY
SDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

Figure 104C

>XENP21474 – human IL15 x human IL15R α (Sushi)-(GGGGS)₄ Fc heterodimer**Chain 1 - human_IL15-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (16479) (SEQ ID NOS 442-444)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNVTES
GCKECEEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVK
HEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREP
QVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEQGDVFSC
SVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₄-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15909) (SEQ ID NOS 445-447)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGGSGGGG
SGGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAK
TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCL
VKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

>XENP21475 – human IL15 x human IL15R α (Sushi) Fc heterodimer**Chain 1 - human_IL15-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (16479) (SEQ ID NOS 448-450)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNVTES
GCKECEEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVK
HEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREP
QVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEQGDVFSC
SVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (16481) (SEQ ID NOS 451-453)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTHTCPPCPA
PPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQ
DWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENN
YKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

>XENP21476 – human IL15-(GGGGS)₂ x human IL15R α (Sushi)-(GGGGS)₂ Fc heterodimer**Chain 1 - human_IL15_(GGGGS)₂-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (16480) (SEQ ID NOS 454-456)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNVTES
GCKECEEELEEKNIKEFLQSFVHIVQMFINTS/GGGGSGGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISR
TPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEK
TISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKS
RWEQGDVFSCSVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₂-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (16482) (SEQ ID NOS 457-459)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGGS/EPKS
SDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNST
YRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAV
EWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Figure 104D

>XENP21477 – human IL15-(GGGGS)₂ x human IL15Rα(Sushi)-(GGGGS)₄ Fc heterodimer**Chain 1 - human_IL15_(GGGGS)₂_Fc(216)_IgG1_pl(-****)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (16480) (SEQ ID NOS 460-462)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHTVENLIILANNSLSSNGN
VTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS/GGGGSGGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKP
 KDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCK
 VSNKALPAIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGGQPENNYKTTTPVLD
 SDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)_(GGGGS)₄_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15909) (SEQ ID NOS 463-465)

ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGGSG
GGGSGGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDG
 VEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAIEKTISKAKGQPREPQVYTLPPSREQ
 MTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEA
 LHNHYTQKSLSLSPGK

>XENP21478 – human IL15Rα(Sushi)-(GGGGS)₆-human IL15(single-chain) Fc heterodimer**Chain 1 - human_IL15Rα(sushi)_(GGGGS)₆-human_IL15-Fc(216)_IgG1_pl(-****)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (16478) (SEQ ID NOS 466-469)**

ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGGSG
GGGSGGGGSGGGGSGGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GD
ASIHTVENLIILANNSLSSNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPV
 GPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQD
 WLNGKEYKCKVSNKALPAIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGGQPE
 NNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - empty-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (8924) (SEQ ID NO: 470)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPR
 EEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAIEKTISKAKGQPREPQVYTLPPSREQMTKNQVSLTCL
 VKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSL
 SPGK

Figure 104E

>XENP21479 – empty-Fc-IL15(non-covalent)-human IL15Rα(Sushi) Fc heterodimer**Chain 1 - human_IL15_no_tag (16484) (SEQ ID NO: 471)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLES GDASIHDTVENLIILANNSLSSNGN
VTESGCKECEEELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 472)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPR
 EEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDV
 SGFYPSDIAVEWESDGGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEEQGDVFCSCVMHEALHNHYTQKSLSLSP
 GK

Chain 3 - human_IL15Rα(Sushi)-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (16481) (SEQ ID NOS 473-475)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTHTCP
PCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV
SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFYPSDIAVE
WESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

>XENP021978 – human IL15(non-covalent)-human IL15Rα(Sushi) Fc(216) IgG1 C220S/PVA /S267K**Chain 1 - human_IL15Rα(Sushi)-Fc(216)_IgG1_C220S/PVA_/S267K (17023) (SEQ ID NOS 476-478)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15_no_tag (16484) (SEQ ID NO: 479)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINITS

>XENP021979 – human IL15_N72D (non-covalent)-human IL15Rα(Sushi) Fc(216) IgG1 C220S/PVA /S267K**Chain 1 - human_IL15Rα(Sushi)-Fc(216)_IgG1_C220S/PVA_/S267K (17023) (SEQ ID NOS 480-482)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15_N72D_no_tag (17076) (SEQ ID NO: 483)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLES GDASIHDTVENLIILANDSL
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINITS

Figure 104F

>XENP021988 human IL15 (GGGGS)1-human IL15Ra(Sushi-D96) (GGGGS)1 Fc(216) IgG1 pl(-)
Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 – human_IL15_(GGGGS)1_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 484-486)

NWNVNVS~~DL~~KKIEDLIQSMHIDATLYTESDVHPSCKV~~TAMKCF~~LLELQVISLES~~GDASIH~~DVTENLII~~LANN~~SL~~S~~
SNGNVTESGCKECEELEEKNIKEFLQSFVHI~~VQMFINTS~~/GGGGS/EPKSSDKTHTCP~~PCPAP~~PVAGPSVFLFPP
KPKDTLMI~~SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNA~~TK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEK~~TISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYP~~SDIAVEWESDGQ~~PENNYK~~TTP
PVLDS~~DGSFFLYSKLTVDKSRWEQGDV~~FSCSV~~MHEALHNHYTQKSLS~~SPGK

Chain 2 – human_IL15Ra(Sushi-D96)_(GGGGS)1_c(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 487-489)

ITCPPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSS~~LTECVLNKATNVAHW~~TTPSLK~~CIRD~~/GGGGS/EP
KSSDKTHTCP~~PCPAP~~PVAGPSVFLFPPKPKDTLMI~~SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNA~~TKPRE
EQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEK~~TISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYP~~SDIAVEWESDGQ~~PENNYK~~TTP
PVLDS~~DGSFFLYSKLTVDKSRWEQGDV~~FSCSV~~MHEALHNHYTQKSLS~~SPGK

>XENP021989 human IL15 (GGGGS)1-human IL15Ra(Sushi-D96/P97) (GGGGS)1 Fc(216) IgG1 pl(-)
Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

**Chain 1 - human_IL15_(GGGGS)1_(GGGGS)1_Fc(216)_IgG1_pl(-)
Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 490-492)**

NWNVNVS~~DL~~KKIEDLIQSMHIDATLYTESDVHPSCKV~~TAMKCF~~LLELQVISLES~~GDASIH~~DVTENLII~~LANN~~SL~~S~~
SNGNVTESGCKECEELEEKNIKEFLQSFVHI~~VQMFINTS~~/GGGGS/EPKSSDKTHTCP~~PCPAP~~PVAGPSVFLFPP
KPKDTLMI~~SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNA~~TK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEK~~TISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYP~~SDIAVEWESDGQ~~PENNYK~~TTP
PVLDS~~DGSFFLYSKLTVDKSRWEQGDV~~FSCSV~~MHEALHNHYTQKSLS~~SPGK

Chain 2 - human_IL15Ra(Sushi-D96/P97)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 493-495)

ITCPPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSS~~LTECVLNKATNVAHW~~TTPSLK~~CIRDP~~/GGGGS/E
PKSSDKTHTCP~~PCPAP~~PVAGPSVFLFPPKPKDTLMI~~SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNA~~TKPRE
EEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEK~~TISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYP~~SDIAVEWESDGQ~~PENNYK~~TTP
PVLDS~~DGSFFLYSKLTVDKSRWEQGDV~~FSCSV~~MHEALHNHYTQKSLS~~SPGK

>XENP021990 human IL15 (GGGGS)1-human IL15Ra(Sushi-D96/P97/A98) (GGGGS)1 Fc(216) IgG1 pl(-)
Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_(GGGGS)1_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 496-498)

NWNVNVS~~DL~~KKIEDLIQSMHIDATLYTESDVHPSCKV~~TAMKCF~~LLELQVISLES~~GDASIH~~DVTENLII~~LANN~~SL~~S~~
SNGNVTESGCKECEELEEKNIKEFLQSFVHI~~VQMFINTS~~/GGGGS/EPKSSDKTHTCP~~PCPAP~~PVAGPSVFLFPP
KPKDTLMI~~SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNA~~TK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEK~~TISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYP~~SDIAVEWESDGQ~~PENNYK~~TTP
PVLDS~~DGSFFLYSKLTVDKSRWEQGDV~~FSCSV~~MHEALHNHYTQKSLS~~SPGK

Chain 2 - human_IL15Ra(Sushi-D96/P97/A98)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 499-501)

ITCPPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSS~~LTECVLNKATNVAHW~~TTPSLK~~CIRDP~~A/GGGGS/
EPKSSDKTHTCP~~PCPAP~~PVAGPSVFLFPPKPKDTLMI~~SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNA~~TKPRE
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEK~~TISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYP~~SDIAVEWESDGQ~~PENNYK~~TTP
PVLDS~~DGSFFLYSKLTVDKSRWEQGDV~~FSCSV~~MHEALHNHYTQKSLS~~SPGK

Figure 104G

>XENP021991 human IL15 (GGGGS)1-human IL15Ra(Sushi-D96/P97/A98) Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_(GGGGS)1_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 502-504)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS /GGGGS /EPKSSDKTHTCPCPAPPVAGPSVFLFPP
 KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTT
 PVLDS DGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi-D96/P97/A98)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 505-507)

ITCPCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCI RDP A/EPKSSD
 KTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYN
 STYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGF
 YPSDIAVEWESNGQPENNYKTT PVLDS DGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

>XENP021992 human IL15-human IL15Ra(Sushi-D96/P97/A98) Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 508-510)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS /EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTT PVLDS
 DGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi-D96/P97/A98)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 511-513)

ITCPCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCI RDP A/EPKSSD
 KTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYN
 STYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGF
 YPSDIAVEWESNGQPENNYKTT PVLDS DGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

>XENP021993 human IL15Ra(sushi) (GGGGS)5-human IL15(single-chain)-empty-Fc Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15Ra(sushi)_(GGGGS)5-human_IL15(single-chain)_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 514-517)

ITCPCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCI RDP A/ GGGSGGGG
 SGGGSGGGSGGGGS /NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLES GDAS
 IHDTVENLII LANNSLS SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS /EPKSSDKTHTCPCPAPP
 VAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVL
 HQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESD
 GQPENNYKTT PVLDS DGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 518)

EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CLVKGFYPSDIAVEWESNGQPENNYKTT PVLDS DGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKS
 LSLSPGK

Figure 104H

**>XENP021994 human IL15Ra(sushi) (GGGGS)4-human IL15(single-chain)-empty-Fc Fc(216) IgG1 pl(-)
_Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q**

**Chain 1 - human_IL15Ra(sushi)_(GGGGS)4-human_IL15(single-chain)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 519-522)**

ITCPPPMSEVHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGSGGGSGGGSGGGG
S/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVLSLESGDASIHDTVENLIILANNSLSSNGNVTES
GCKECEEELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTIMISRTPEVTCVVDVKHE
DPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYITLPPS
REEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKITPPVLDSDGSFFLYSKLTVDKSRWEQGDVFSCSVMEALHNHYTQK
SLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 523)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTIMISRTPEVTCVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYR
VVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYITLPPSREQMTKNQVKLTCLVKGFYPSDIAVEWESNGQ
PENNYKITPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMEALHNHYTQKSLSLSPGK

**>XENP021995 human IL15Ra(sushi) (GGGGS)3-human IL15(single-chain)-empty-Fc Fc(216) IgG1 pl(-)
_Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q**

**Chain 1 - human_IL15Ra(sushi)_(GGGGS)3-human_IL15(single-chain)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 524-527)**

ITCPPPMSEVHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGSGGGSGGGGS/NWV
NVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVLSLESGDASIHDTVENLIILANNSLSSNGNVTESGCKEC
EELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTIMISRTPEVTCVVDVKHEDPEVK
FNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYITLPPSREEMT
KNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKITPPVLDSDGSFFLYSKLTVDKSRWEQGDVFSCSVMEALHNHYTQKSLSL
PGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 528)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTIMISRTPEVTCVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYR
VVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYITLPPSREQMTKNQVKLTCLVKGFYPSDIAVEWESNGQ
PENNYKITPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMEALHNHYTQKSLSLSPGK

>XENP021996 - human IL15(non-covalent)-human IL15Ra(Sushi)-6x-His

Chain 1 - human_IL15_no_tag (16484) (SEQ ID NO: 529)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVLSLESGDASIHDTVENLIILAN
NSLSSNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15Ra(Sushi)-6x-His (17033) (SEQ ID NO: 530)

ITCPPPMSEVHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR

>XENP022001 - human IL15(non-covalent)-human IL15Ra(Sushi-D96)-6x-His

Chain 1 - human_IL15_no_tag (16484) (SEQ ID NO: 531)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVLSLESGDASIHDTVENLIILAN
NSLSSNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15Ra(Sushi-D96)-6x-His (17048) (SEQ ID NO: 532)

ITCPPPMSEVHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIRD

Figure 104I

>XENP022002 - human IL15(non-covalent)-human IL15Ra(Sushi-D96/P97)-6x-His**Chain 1 - human_IL15_no_tag (16484) (SEQ ID NO: 533)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES GDASIHDTVENLII
LANNLSSNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15Ra(Sushi-D96/P97)-6x-His (17049) (SEQ ID NO: 534)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIRD P

>XENP022003 - human IL15(non-covalent)-human IL15Ra(Sushi-D96/P97/A98)-6x-His**Chain 1 - human_IL15_no_tag (16484) (SEQ ID NO: 535)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES GDASIHDTVENLII
LANNLSSNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15Ra(Sushi-D96/P97/A98)-6x-His (17050) (SEQ ID NO: 536)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIRD PA

>XENP022004 - human IL15 E87C-human IL15Ra(Sushi-D96/C97)-6x-His**Chain 1 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 537)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES GDASIHDTVENLII
LANNLSSNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15Ra(Sushi-D96/C97)-6x-His (17051) (SEQ ID NO: 538)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIRD C

>XENP022005 - human IL15 E87C-human IL15Ra(Sushi-D96/P97/C98)-6x-His**Chain 1 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 539)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES GDASIHDTVENLII
LANNLSSNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15Ra(Sushi-D96/P97/C98)-6x-His (17052) (SEQ ID NO: 540)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIRD PC

>XENP022006 - human IL15 E87C-human IL15Ra(Sushi-D96/C97/A98)-6x-His**Chain 1 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 541)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES GDASIHDTVENLII
LANNLSSNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15Ra(Sushi-D96/C97/A98)-6x-His (17053) (SEQ ID NO: 542)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIRD CA

Figure 104J

>XENP022007 - human IL15 V49C-human IL15Ra(Sushi-S40C)-6x-His**Chain 1 - human_IL15_V49C_no_tag (17071) (SEQ ID NO: 543)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQCISLES GDASIHDTVENLII
LANNLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15Ra(Sushi-S40C)-6x-His (17057) (SEQ ID NO: 544)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTPSLKCIR

>XENP022008 - human IL15 L52C-human IL15Ra(Sushi-S40C)-6x-His**Chain 1 - human_IL15_L52C_no_tag (17072) (SEQ ID NO: 545)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISCES GDASIHDTVENLII
LANNLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15Ra(Sushi-S40C)-6x-His (17057) (SEQ ID NO: 546)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTPSLKCIR

>XENP022009 - human IL15 E89C-human IL15Ra(Sushi-K34C)-6x-His**Chain 1 - human_IL15_E89C_no_tag (17075) (SEQ ID NO: 547)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES GDASIHDTVENLII
LANNLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15Ra(Sushi-K34C)-6x-His (17054) (SEQ ID NO: 548)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFCKRAGTSSLTECVLNKATNVAHWTPSLKCIR

>XENP022010 - human IL15 Q48C-human IL15Ra(Sushi-G38C)-6x-His**Chain 1 - human_IL15_Q48C_no_tag (17070) (SEQ ID NO: 549)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELCVISLES GDASIHDTVENLII
LANNLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15Ra(Sushi-G38C)-6x-His (17056) (SEQ ID NO: 550)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKACTSSLTECVLNKATNVAHWTPSLKCIR

>XENP022011 - human IL15 E53C-human IL15Ra(Sushi-L42C)-6x-His**Chain 1 - human_IL15_E53C_no_tag (17073) (SEQ ID NO: 551)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLCS GDASIHDTVENLII
LANNLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15Ra(Sushi-L42C)-6x-His (17058) (SEQ ID NO: 552)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSCTECVLN KATNVAHWTPSLKCIR

Figure 104K

>XENP022012 - human IL15 C42S-human IL15Ra(Sushi-A37C)-6x-His**Chain 1 - human_IL15_C42S_no_tag (17083) (SEQ ID NO: 553)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKSFLLLELQVISLES GDASIHDTVENLIILANNLSLSSNGNV
TESGCKCEEELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15Ra(Sushi-L42C)-6x-His (17055) (SEQ ID NO: 554)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKCGTSSLTECVLNKATNVAHWTPSLKCIR

>XENP022013 human IL15 E87C (GGGGS)1-human IL15Ra(Sushi-D96/C97) (GGGGS)1 Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q**Chain 1 - human_IL15_E87C_(GGGGS)1_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 555-557)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES GDASIHDTVENLIILANNLSLSSNGNV
TESGCKCEEELEEKNIKEFLQSFVHIVQMFINITS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISR
TPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT
ISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKS
RWEQGDVFSQSVMEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi-D96/C97)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 558-560)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIRDC/GGGGS/EPKSSD
KTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRV
VSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWE
SNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSPGK

>XENP022014 human IL15 E87C (GGGGS)1-human IL15Ra(Sushi-D96/P97/C98) (GGGGS)1 Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q**Chain 1 - human_IL15_E87C_(GGGGS)1_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 561-563)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES GDASIHDTVENLIILANNLSLSSNGNV
TESGCKCEEELEEKNIKEFLQSFVHIVQMFINITS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISR
TPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT
ISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKS
RWEQGDVFSQSVMEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi-D96/P97/C98)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 564-566)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIRDC/GGGGS/EPKSS
DKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYR
VSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEW
ESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSPGK

Figure 104K (continued)

>XENP022015 human IL15_E87C (GGGGS)1-human IL15Ra(Sushi-D96/C97/A98) (GGGGS)1_Fc(216)_IgG1_pl(-)_Isosteric A C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 - human_IL15_E87C_(GGGGS)1_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 567-569)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNV
TESGCKCEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISR
TPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT
ISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKS
RWEQGDVFSQSVMEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi-D96/C97/A98)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 570-572)

ITCPPMSVEHADIWKSYSLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDCA/GGGGS/EPKSS
DKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYR
VVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVSLTCLVKGFYPSDIAVEW
ESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSPGK

ITCPPPMSVEHADIWVKYSLSLYSRERYICNSGFKRKAGTSSLTCEVLNKATNVAHWHTT~~PSLKCIRD~~/GGGGS/EP
KSSDKTHTCPPCPAPPVAGPSVFLFPKPKDITLMI SRTEPVTCTVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
EQYNSTRYRVVSVLTVLHQDWLNGKEYCKKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREQMTKNQVQLTCL
VKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSL
SPGK

Figure 104M

>XENP022355 – empty-Fc-IL15(non-covalent)-human IL15Ra(Sushi-D96/P97) (GGGGS)1 Fc(216) IgG1 pl(-)
Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_no_tag (16484) (SEQ ID NO: 587)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLIIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 588)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSPDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGDVFSCSVMHEALHNHYTQKSLS
LSPGK

Chain 3 - human_IL15Ra(Sushi-D96/P97)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ
ID NOS 589-591)

ITCPPPMSVEHADIWVKSYSLYSRERYCNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDPA/GGGGS/E
PKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
LVKGFYPSPDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLS
LSPGK

>XENP022356 – empty-Fc-IL15(non-covalent)-human IL15Ra(Sushi-
D96/P97/A98) (GGGGS)1 Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_no_tag (16484) (SEQ ID NO: 592)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLIIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 593)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSPDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGDVFSCSVMHEALHNHYTQKSLS
LSPGK

Chain 3 - human_IL15Ra(Sushi-D96/P97/A98)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q
(17036) (SEQ ID NOS 594-596)

ITCPPPMSVEHADIWVKSYSLYSRERYCNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDPA/GGGGS/
EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPSPDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLS
LSPGK

Figure 104N

>XENP022357 – empty-Fc-IL15 E87C-human IL15Ra(Sushi-D96/C97) (GGGGS)1 Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 597)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLS
SNGNVTESGCKCCEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 598)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSPDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGDVFSVCSVMHEALHNHYTQKSLS
LSPGK

Chain 3 - human_IL15Ra(Sushi-D96/C97)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q
(17038) (SEQ ID NOS 599-601)

ITCPPMSVEHADIWVKSYLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIDRC/GGGGS/E
PKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
EEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
LVKGFYPSPDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVCSVMHEALHNHYTQKSLS
LSPGK

>XENP022358 – empty-Fc-IL15 E87C-human IL15Ra(Sushi-D96/P97/C98) (GGGGS)1 Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 602)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLS
SNGNVTESGCKCCEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 603)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSPDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGDVFSVCSVMHEALHNHYTQKSLS
LSPGK

Chain 3 - human_IL15Ra(Sushi-D96/P97/C98)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q
(17039) (SEQ ID NOS 604-606)

ITCPPMSVEHADIWVKSYLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIDRPC/GGGGS/
EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFYPSPDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVCSVMHEALHNHYTQKSLS
LSPGK

Figure 1040

**>XENP022359 – empty-Fc-IL15_E87C-human_IL15Ra(Sushi-D96/C97/A98) (GGGGS)1_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q**

Chain 1 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 607)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLIIILANNSLS
SNGNVTESGCKCEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 608)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGDVFSCSVMHEALHNHYTQKSLS
LSPGK

**Chain 3 - human_IL15Ra(Sushi-D96/C97/A98)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q
(17040) (SEQ ID NOS 609-611)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIIRDCA/GGGGS/
EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLS
LSPGK

**>XENP022360 – empty-Fc-IL15_V49C-human_IL15Ra(Sushi-S40C) (GGGGS)1_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q**

Chain 1 - human_IL15_V49C_no_tag (17071) (SEQ ID NO: 612)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQCISLESGDASIHDTVENLIIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 613)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGDVFSCSVMHEALHNHYTQKSLS
LSPGK

**Chain 3 - human_IL15Ra(Sushi-S40C)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (17044)
(SEQ ID NOS 614-616)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTPSLKCIIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLS
PGK

Figure 104P

**>XENP022361 – empty-Fc-IL15_L52C-human_IL15Ra(Sushi-S40C)_(GGGGS)1_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q**

Chain 1 - human_IL15_L52C_no_tag (17072) (SEQ ID NO: 617)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISCESGDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 618)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGDFVSCSVMEALHNHYTQKSLS
LSPGK

**Chain 3 - human_IL15Ra(Sushi-S40C)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (17044)
(SEQ ID NOS 619-621)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVCLTCLV
KGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLS
PGK

**>XENP022362 – empty-Fc-IL15_E89C-human_IL15Ra(Sushi-K34C)_(GGGGS)1_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q**

Chain 1 - human_IL15_E89C_no_tag (17075) (SEQ ID NO: 622)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 623)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGDFVSCSVMEALHNHYTQKSLS
LSPGK

**Chain 3 - human_IL15Ra(Sushi-K34C)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (17041)
(SEQ ID NOS 624-626)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFCRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVCLTCLV
KGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLS
PGK

Figure 104Q

**>XENP022363 – empty-Fc-IL15_Q48C-human_IL15Ra(Sushi-G38C)_(GGGGS)1_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q**

Chain 1 - human_IL15_Q48C_no_tag (17070) (SEQ ID NO: 627)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELCVISLESQDASIHDTVENLIIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 628)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGDFVSCSVMHEALHNHYTQKSLS
LSPGK

**Chain 3 - human_IL15Ra(Sushi-G38C)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (17043)
(SEQ ID NOS 629-631)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKACTSSLTECVLNKATNVAHWTPSLKCIKIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQVSCSVMHEALHNHYTQKSLSLS
PGK

**>XENP022364 – empty-Fc-IL15_E53C-human_IL15Ra(Sushi-L42C)_(GGGGS)1_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q**

Chain 1 - human_IL15_E53C_no_tag (17073) (SEQ ID NO: 632)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLCSQDASIHDTVENLIIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 633)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGDFVSCSVMHEALHNHYTQKSLS
LSPGK

**Chain 3 - human_IL15Ra(Sushi-L42C)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (17045)
(SEQ ID NOS 634-636)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSCTECVLNKAHVAHWTPSLKCIKIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQVSCSVMHEALHNHYTQKSLSLS
PGK

Figure 104R

**>XENP022365 – empty-Fc-IL15_C42S-human_IL15Ra(Sushi-A37C)_(GGGGS)1_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q**

Chain 1 - human_IL15_C42S_no_tag (17083) (SEQ ID NO: 637)

NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKSFLELQVISLESGDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 638)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLS
SLSPGK

**Chain 3 - human_IL15Ra(Sushi-A37C)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (17042)
(SEQ ID NOS 639-641)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRCKGTSSLTECVLNKATNVAHWTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLS
PGK

**>XENP022366 – empty-Fc-IL15(non-covalent)-human_IL15Ra(sushi)_(GGGGS)1_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q**

Chain 1 - human_IL15_no_tag (16484) (SEQ ID NO: 642)

NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLESGDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 643)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLS
SLSPGK

**Chain 3 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908) (SEQ ID
NOS 644-646)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKACTSSLTECVLNKATNVAHWTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLS
PGK

>XENP022493 - human_IL15_L45C-human_IL15Ra(Sushi-G38C)-6x-His

Chain 1 - human_IL15_L45C_no_tag (17069) (SEQ ID NO: 647)

NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLESGDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi-G38C)-6x-His (17056) (SEQ ID NO: 648)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKACTSSLTECVLNKATNVAHWTPSLKCIR

Figure 104S

>XENP022494 – human_IL15_L45C-human_IL15Ra(Sushi-A37C)-6x-His**Chain 1 - human_IL15_L45C_no_tag (17069) (SEQ ID NO: 649)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi-A37C)-6x-His (17055) (SEQ ID NO: 650)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKCGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022634 – human_IL15(E87C)-human_IL15Ra(Sushi-D96/C97) Fc(216) IgG1_C220S/PVA_/S267K**Chain 1 - human_IL15Ra(Sushi-D96/C97)-Fc(216)_IgG1_C220S/PVA_/S267K (17581)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDC/EPKSSDK
THTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNS
TYRVVSVLTIVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFY
PSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGK
(SEQ ID NOS 651-653)

Chain 2 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 654)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKCEELEEKNIKEFLQSFVHIVQMFINTS

>XENP022635 – human_IL15(E87C)-human_IL15Ra(Sushi-D96/C97/A98) Fc(216) IgG1_C220S/PVA_/S267K**Chain 1 - human_IL15Ra(Sushi-D96/C97/A98)-Fc(216)_IgG1_C220S/PVA_/S267K (17582) (SEQ ID NOS 655-657)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDC/EPKSSD
KTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYN
STYRVVSVLTIVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGF
YPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 658)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKCEELEEKNIKEFLQSFVHIVQMFINTS

>XENP022636 – human_IL15(L52C)-human_IL15Ra(Sushi-S40C) Fc(216) IgG1_C220S/PVA_/S267K**Chain 1 - human_IL15Ra(Sushi-S40C)-Fc(216)_IgG1_C220S/PVA_/S267K (17583) (SEQ ID NOS 659-661)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTIVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DI AVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15_L52C_no_tag (17072) (SEQ ID NO: 662)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Figure 104T

**>XENP022637 – empty-Fc(216)_IgG1_pl(-)
) Isosteric_A_C220S/PVA_/S267K/L368D/K370S_(GGGGS)2_IL15Ra(Sushi)_IL15(non-covalent)_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q**

Chain 1 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S_(GGGGS)2_IL15Ra(Sushi) (17603) (SEQ ID NOS 663-665)

EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CDVSGFYPSDIAVEWESDGPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGDVFSFCSVMHEALHNHYTQKSL
 SLSPGK/GGGSGGGGS/ITCPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWT
TPSLKCIR

Chain 2 - empty-Fc(216)_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q (8927) (SEQ ID NO: 666)

ERKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSFCSVMHEALHNHYTQKSL
 SLSPGK

Chain 3 - human_IL15_no_tag (16484) (SEQ ID NO: 667)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

**>XENP022638 empty-Fc(216)_IgG1_pl(-)
) Isosteric_A_C220S/PVA_/S267K/L368D/K370S_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q_(GGGGS)
)2_IL15Ra(Sushi)_IL15(non-covalent)**

Chain 1 – IL15 (SEQ ID NO: 668)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 – empty_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NO: 669)

EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVL
 TVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTPP
 VLDSDGSFFLYSKLTVDKSRWQQGDVFSFCSVMHEALHNHYTQKSLSLSPGK

Chain 3 – Fc(216)_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q_(GGGGS)2_IL15Ra(Sushi) (SEQ ID NOS 670-672)

ERKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVL
 TVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPP
 VLDSDGSFFLYSKLTVDKSRWQQGNVFSFCSVMHEALHNHYTQKSLSLSPGK/GGGSGGGGS/ITCPPMSVEHADIWVKSYSLSRERY
ICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 104U

**>XENP022639 – empty-Fc(216)_IgG1_pl(-)
) Isosteric_A_C220S/PVA_/S267K/L368D/K370S_(GGGGS)2_IL15Ra(Sushi-
 D96/C97)_IL15(E87C)_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q**

**Chain 1 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S_(GGGGS)2_IL15Ra(Sushi-
 D96/C97) (17605) (SEQ ID NOS 673-675)**

EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGDVFSQVMHEALHNHYTQKSLS
 LSPGK/GGGSGGGGS/ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWT
 TP SLKCI RDC

Chain 2 - empty-Fc(216)_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q (8927) (SEQ ID NO: 676)

ERKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFKWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
 CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLS
 LSPGK

Chain 3 - human_IL15_E87C_no_tag (17074) (SEQ ID NO: 677)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVENLIILANNSLS
 SNGNVTESGCKCCEEL E EKN I KEFLQSFVHIVQMFINTS

**>XENP022640 empty-Fc(216)_IgG1_pl(-)
) Isosteric_A_C220S/PVA_/S267K/L368D/K370S_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q_(GGGGS)
)2_IL15Ra(Sushi-D96/C97)_IL15(E87C)**

Chain 1 – IL15 (SEQ ID NO: 678)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVENLIILANNSLSSNGNVTESGCKCCEE
 L E EKN I KEFLQSFVHIVQMFINTS

Chain 2 – empty_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NO: 679)

EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVL
 TVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 VLDSGGSFFLYSKLTVDKSRWEEQGDVFSQVMHEALHNHYTQKSLSLSPGK

**>XENP022684 empty-Fc-IL15_E87C-human_IL15Ra(Sushi-D96/C97/A98)_Fc(216)_IgG1_pl(-)
) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q**

Chain 1 – IL15_E87C (SEQ ID NO: 680)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVENLIILANNSLSSNGNVTESGCKCCEE
 L E EKN I KEFLQSFVHIVQMFINTS

**Chain 2 - IL15Ra(Sushi-D96/C97/A98)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S
 (SEQ ID NOS 681-683)**

ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTP SLKCI RDC A/EPKSSDKTHTCPCPAPPVAG
 PSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
 LPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW
 QQGNVFSQVMHEALHNHYTQKSLSLSPGK

Chain 3 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 684)

EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVL
 TVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 VLDSGGSFFLYSKLTVDKSRWEEQGDVFSQVMHEALHNHYTQKSLSLSPGK

Figure 104V

>XENP022687 human IL15_E87C-human IL15Ra(Sushi-D96/C97/A98)_Fc(216)_IgG1_C220S/PVA_/S267K**Chain 1 – IL15_E87C (SEQ ID NO: 685)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS SNGNVTESGCKCEE
LEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - IL15Ra(Sushi-D96/C97/A98)_Fc(216)_IgG1_C220S/PVA_/S267K (SEQ ID NOS 686-688)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDCA/EPKSSDKTHTC>PCPAPPVAG
PSVFLFPKPKDTLMISRTPEVTCVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
LPAPIEKTIISKAKGQ>PREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW
QQGNVFSCSVMHEALHNHYTQKSLSLSPGK

>XENP022791 - human IL15_N1D(non-covalent)-human IL15Ra(Sushi)-6x-His**Chain 1 - human_IL15_N1D(non-covalent) (17666) (SEQ ID NO: 689)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi)-6x-His (17033) (SEQ ID NO: 690)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022792 - human IL15_N4D(non-covalent)-human IL15Ra(Sushi)-6x-His**Chain 1 - human_IL15_N4D(non-covalent) (17667) (SEQ ID NO: 691)**

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi)-6x-His (17033) (SEQ ID NO: 692)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022793 - human IL15_D8N(non-covalent)-human IL15Ra(Sushi)-6x-His**Chain 1 - human_IL15_D8N(non-covalent) (17668) (SEQ ID NO: 693)**

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi)-6x-His (17033) (SEQ ID NO: 694)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022794 - human IL15_D30N(non-covalent)-human IL15Ra(Sushi)-6x-His**Chain 1 - human_IL15_D30N(non-covalent) (17669) (SEQ ID NO: 695)**

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi)-6x-His (17033) (SEQ ID NO: 696)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 104W

>XENP022795 - human_IL15_D61N(non-covalent)-human_IL15Rα(Sushi)-6x-His**Chain 1 - human_IL15_D61N(non-covalent) (17670) (SEQ ID NO: 697)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Rα(Sushi)-6x-His (17033) (SEQ ID NO: 698)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022796 - human_IL15_E64Q(non-covalent)-human_IL15Rα(Sushi)-6x-His**Chain 1 - human_IL15_E64Q(non-covalent) (17671) (SEQ ID NO: 699)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Rα(Sushi)-6x-His (17033) (SEQ ID NO: 700)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022801 - human_IL15_N65D(non-covalent)-human_IL15Rα(Sushi)-6x-His**Chain 1 - human_IL15_N65D(non-covalent) (17672) (SEQ ID NO: 701)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Rα(Sushi)-6x-His (17033) (SEQ ID NO: 702)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022802 - human_IL15_Q108E(non-covalent)-human_IL15Rα(Sushi)-6x-His**Chain 1 - human_IL15_Q108E(non-covalent) (17673) (SEQ ID NO: 703)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS

Chain 2 - human_IL15Rα(Sushi)-6x-His (17033) (SEQ ID NO: 704)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022803 - human_IL15_N1D/D61N(non-covalent)-human_IL15Rα(Sushi)-6x-His**Chain 1 - human_IL15_N1D/D61N(non-covalent) (17674) (SEQ ID NO: 705)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Rα(Sushi)-6x-His (17033) (SEQ ID NO: 706)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 104X

>XENP022804 - human_IL15_N1D/E64Q(non-covalent)-human_IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_N1D/E64Q(non-covalent) (17675) (SEQ ID NO: 707)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15R α (Sushi)-6x-His (17033) (SEQ ID NO: 708)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022805 - human_IL15_N4D/D61N(non-covalent)-human_IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_N4D/D61N(non-covalent) (17676) (SEQ ID NO: 709)**

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15R α (Sushi)-6x-His (17033) (SEQ ID NO: 710)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022806 - human_IL15_N4D/E64Q(non-covalent)-human_IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_N4D/E64Q(non-covalent) (17677) (SEQ ID NO: 711)**

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15R α (Sushi)-6x-His (17033) (SEQ ID NO: 712)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022807 - human_IL15_D8N/D61N(non-covalent)-human_IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_D8N/D61N(non-covalent) (17678) (SEQ ID NO: 713)**

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15R α (Sushi)-6x-His (17033) (SEQ ID NO: 714)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022808 - human_IL15_D8N/E64Q(non-covalent)-human_IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_D8N/E64Q(non-covalent) (17679) (SEQ ID NO: 715)**

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINITS

Chain 2 - human_IL15R α (Sushi)-6x-His (17033) (SEQ ID NO: 716)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 104Y

>XENP022809 - human_IL15_D61N/E64Q(non-covalent)-human_IL15Rα(Sushi)-6x-His**Chain 1 - human_IL15_D61N/E64Q(non-covalent) (17680) (SEQ ID NO: 717)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESBGDASIHNTVQNLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Rα(Sushi)-6x-His (17033) (SEQ ID NO: 718)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022810 - human_IL15_E64Q/Q108E(non-covalent)-human_IL15Rα(Sushi)-6x-His**Chain 1 - human_IL15_E64Q/Q108E(non-covalent) (17681) (SEQ ID NO: 719)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESBGDASIHNTVQNLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS

Chain 2 - human_IL15Rα(Sushi)-6x-His (17033) (SEQ ID NO: 720)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022811 - human_IL15_N1D/N4D/D8N(non-covalent)-human_IL15Rα(Sushi)-6x-His**Chain 1 - human_IL15_N1D/N4D/D8N(non-covalent) (17682) (SEQ ID NO: 721)**

DWVDVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESBGDASIHNTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Rα(Sushi)-6x-His (17033) (SEQ ID NO: 722)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022812 - human_IL15_D61N/E64Q/N65D(non-covalent)-human_IL15Rα(Sushi)-6x-His**Chain 1 - human_IL15_D61N/E64Q/N65D(non-covalent) (17683) (SEQ ID NO: 723)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESBGDASIHNTVQDLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Rα(Sushi)-6x-His (17033) (SEQ ID NO: 724)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022813 - human_IL15_N1D/D61N/E64Q/Q108E(non-covalent)-human_IL15Rα(Sushi)-6x-His**Chain 1 - human_IL15_N1D/D61N/E64Q/Q108E(non-covalent) (17684) (SEQ ID NO: 725)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESBGDASIHNTVQNLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS

Chain 2 - human_IL15Rα(Sushi)-6x-His (17033) (SEQ ID NO: 726)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 104Z

>XENP022814 - human IL15 N4D/D61N/E64Q/Q108E(non-covalent)-human IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_N4D/D61N/E64Q/Q108E(non-covalent) (17685) (SEQ ID NO: 727)**

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQNLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15R α (Sushi)-6x-His (17033) (SEQ ID NO: 728)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

**>XENP022815 - human IL15 N1D (GGGGS)₁-human IL15R α (Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q****Chain 1 - human_IL15_N1D_(GGGGS)₁ (17686) (SEQ ID NOS 729-731)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTT
PVLDS DGSFFLYSKLTVDKSRWEQGDVFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₁ Fc(216)_IgG1 pl(-)**) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908)
(SEQ ID NOS 732-734)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLSL
PGK

**>XENP022816 - human IL15 N4D (GGGGS)₁-human IL15R α (Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q****Chain 1 - human_IL15_N4D_(GGGGS)₁ (17687) (SEQ ID NOS 735-737)**

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTT
PVLDS DGSFFLYSKLTVDKSRWEQGDVFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₁ Fc(216)_IgG1 pl(-)**) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908)
(SEQ ID NOS 738-740)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLSL
PGK

Figure 104AA

>XENP022817 - human IL15 D8N (GGGGS)₁-human IL15Rα(Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_D8N_(GGGGS)₁ (17688) (SEQ ID NOS 741-743)

NWVNVI SNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNLSL
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/ EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
 PVLDS DGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)_(GGGGS)₁ Fc(216) IgG1 pl(-)

) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q (15908)
(SEQ ID NOS 744-746)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSPGK

>XENP022818 - human IL15 D30N (GGGGS)₁-human IL15Rα(Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_D30N_(GGGGS)₁ (17689) (SEQ ID NOS 747-749)

NWVNVI SDLKKIEDLIQSMHIDATLYTESNVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNLSL
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/ EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
 PVLDS DGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)_(GGGGS)₁ Fc(216) IgG1 pl(-)

) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q (15908)
(SEQ ID NOS 750-752)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSPGK

Figure 104AB

>XENP022819 - human IL15_D61N (GGGGS)₁-human IL15R α (Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_D61N_(GGGGS)₁ (17690) (SEQ ID NOS 753-755)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHNTVENLII LANNLSL
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/ GGGGS/ EPKSSDKTHTCPPCAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₁-Fc(216)_IgG1_pl(-)

) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA /S267K/S364K/E357Q (15908)
(SEQ ID NOS 756-758)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSPGK

>XENP022820 - human IL15_E64Q (GGGGS)₁-human IL15R α (Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_E64Q_(GGGGS)₁ (17691) (SEQ ID NOS 759-761)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVQNLI LANNLSL
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/ GGGGS/ EPKSSDKTHTCPPCAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₁-Fc(216)_IgG1_pl(-)

) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA /S267K/S364K/E357Q (15908)
(SEQ ID NOS 762-764)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSPGK

>XENP022821 - human IL15_N65D (GGGGS)₁-human IL15R α (Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_N65D_(GGGGS)₁ (17692) (SEQ ID NOS 765-767)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVEDLI LANNLSL
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/ GGGGS/ EPKSSDKTHTCPPCAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₁-Fc(216)_IgG1_pl(-)

) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA /S267K/S364K/E357Q (15908)
(SEQ ID NOS 768-770)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSPGK

Figure 104AC

>XENP022822 - human IL15 Q108E (GGGGS)₁-human IL15R α (Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_Q108E_(GGGGS)₁ (17693) (SEQ ID NOS 771-773)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVENLII LANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/ GGGGS/ EPKSSDKTHTCPCPAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEEQGVFSCSVMEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₁ Fc(216)_IgG1_pl(-)

) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908)
(SEQ ID NOS 774-776)

ITCPPPMSEVHADIIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSPGK

>XENP022823 - human IL15 N1D/D61N (GGGGS)₁-human IL15R α (Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_N1D/D61N_(GGGGS)₁ (17694) (SEQ ID NOS 777-779)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHNTVENLII LANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/ GGGGS/ EPKSSDKTHTCPCPAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEEQGVFSCSVMEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₁ Fc(216)_IgG1_pl(-)

) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908)
(SEQ ID NOS 780-782)

ITCPPPMSEVHADIIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSPGK

>XENP022824 - human IL15 N1D/E64Q (GGGGS)₁-human IL15R α (Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_N1D/E64Q_(GGGGS)₁ (17695) (SEQ ID NOS 783-785)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVQNLII LANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/ GGGGS/ EPKSSDKTHTCPCPAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEEQGVFSCSVMEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₁ Fc(216)_IgG1_pl(-)

) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908)
(SEQ ID NOS 786-788)

ITCPPPMSEVHADIIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSPGK

Figure 104AD

>XENP022825 - human IL15 N4D/D61N (GGGGS)₁-human IL15R α (Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_N4D/D61N_(GGGGS)₁ (17696) (SEQ ID NOS 789-791)

NWVDVLSDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHNTVENLII LANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/ EPKSSDKTHTCPPCPAPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEEQGVFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₁-Fc(216)_IgG1_pl(-)

) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908)
(SEQ ID NOS 792-794)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCPAPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLSLSPGK

>XENP022826 - human IL15 N4D/E64Q (GGGGS)₁-human IL15R α (Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_N4D/E64Q_(GGGGS)₁ (17697) (SEQ ID NOS 795-797)

NWVDVLSDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVQNLI LANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/ EPKSSDKTHTCPPCPAPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEEQGVFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₁-Fc(216)_IgG1_pl(-)

) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908)
(SEQ ID NOS 798-800)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCPAPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLSLSPGK

>XENP022827 - human IL15 D8N/D61N (GGGGS)₁-human IL15R α (Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_D8N/D61N_(GGGGS)₁ (17698) (SEQ ID NOS 801-803)

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHNTVENLII LANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/ EPKSSDKTHTCPPCPAPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEEQGVFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₁-Fc(216)_IgG1_pl(-)

) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908)
(SEQ ID NOS 804-806)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCPAPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLSLSPGK

Figure 104AE

>XENP022828 - human IL15 D8N/E64Q (GGGGS)₁-human IL15R α (Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_D8N/E64Q_(GGGGS)₁ (17699) (SEQ ID NOS 807-809)

NWVNVI SNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNLSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/ EPKSSDKTHTCPPCPAPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGVDFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₁-Fc(216)_IgG1_pl(-)

) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908)
(SEQ ID NOS 810-812)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCPAPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLSLSPGK

>XENP022829 - human IL15 D61N/E64Q (GGGGS)₁-human IL15R α (Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_D61N/E64Q_(GGGGS)₁ (17700) (SEQ ID NOS 813-815)

NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQNLIILANNLSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/ EPKSSDKTHTCPPCPAPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGVDFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₁-Fc(216)_IgG1_pl(-)

) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908)
(SEQ ID NOS 816-818)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCPAPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLSLSPGK

>XENP022830 - human IL15 E64Q/Q108E (GGGGS)₁-human IL15R α (Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_E64Q/Q108E_(GGGGS)₁ (17701) (SEQ ID NOS 819-821)

NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNLSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/ GGGGS/ EPKSSDKTHTCPPCPAPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGVDFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15R α (Sushi)_(GGGGS)₁-Fc(216)_IgG1_pl(-)

) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908)
(SEQ ID NOS 822-824)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCPAPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLSLSPGK

Figure 104AF

>XENP022831 - human IL15 N1D/N4D/D8N (GGGGS)₁-

human IL15Rα(Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-

) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_N1D/N4D/D8N_(GGGGS)₁ (17702) (SEQ ID NOS 825-827)

DWVDVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLI I
LANNLSNNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINITS /GGGGS /EPKSSDKTHTCPPCP
APPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNST
YRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCL
DVSGFYPSDIAVEWESDGGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSCSVMEALHNH
YTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)_(GGGGS)₁ Fc(216) IgG1 pl(-

**) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216) IgG1_C220S/PVA_/S267K/S364K/E357Q
(15908) (SEQ ID NOS 828-830)**

ITCPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GG
GGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVD
GVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSR
WQQGNVFSCSVMEALHNHYTQKSLSLSPGK

>XENP022832 - human IL15 D61N/E64Q/N65D (GGGGS)₁-

human IL15Rα(Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-

) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_D61N/E64Q/N65D_(GGGGS)₁ (17703) (SEQ ID NOS 831-833)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQDLII
LANNLSNNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINITS /GGGGS /EPKSSDKTHTCPPCP
APPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNST
YRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCL
DVSGFYPSDIAVEWESDGGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSCSVMEALHNH
YTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)_(GGGGS)₁ Fc(216) IgG1 pl(-

**) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216) IgG1_C220S/PVA_/S267K/S364K/E357Q
(15908) (SEQ ID NOS 834-836)**

ITCPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GG
GGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVD
GVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSR
WQQGNVFSCSVMEALHNHYTQKSLSLSPGK

Figure 104AF (continued)

>XENP022833 - human IL15 N1D/D61N/E64Q/Q108E (GGGGS)₁-
human IL15Rα(Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_N1D/D61N/E64Q/Q108E_(GGGGS)₁ (17704) (SEQ ID NOS 837-839)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES GDASIHNTVQNLI I
LANNLSLSSNGNVTESGCKECEEELEEKNIKEFLQSFVHIVEMFINTS /GGGGS /EPKSSDKTHTCPPCP
APPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNST
YRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTC
DVSGFYPSDIAVEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNH
YTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)_(GGGGS)₁ Fc(216) IgG1 pl(-)

)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908)
(SEQ ID NOS 840-842)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR /GGGGS /EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLS
PGK

Figure 104AG

>XENP022834 - human IL15 N4D/D61N/E64Q/Q108E (GGGGS)₁-
human IL15Rα(Sushi) (GGGGS)₁ Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_N4D/D61N/E64Q/Q108E_(GGGGS)₁ (17705) (SEQ ID NOS 843-845)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLES GDASIHNTVQNLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/ GGGGS/ EPKSSDKTHTCPCPAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWQQGVFSCSV MHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)_(GGGGS)₁ Fc(216) IgG1 pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216) IgG1_C220S/PVA_/S267K/S364K/E357Q (15908)
(SEQ ID NOS 846-848)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITPSLKCI R/ GGGGS/ EPK
SSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGVFSCSV MHEALHNHYTQKSLSL
PGK

>XENP023174 human IL15Rα(sushi) (GKPGS)6-human IL15(single-chain)-empty-Fc Fc(216) IgG1 pl(-)
)_Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15Rα(sushi)_(GKPGS)6-human_IL15(single-chain)_Fc(216) IgG1 pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 849-852)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITPSLKCI R/ GKPGSGKPGSGKPGSGKPGSGKPG
SGKPGS/ NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNVTES
GCKECEELEEKNIKEFLQSFVHIVQMFINITS/ EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVK
FNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVS
LTCDVSGFYPSDIAVEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGVFSCSV MHEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216) IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 853)

EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREQYNSTYRVVSVL
TVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTP
VLDSDGSFFLYSKLTVDKSRWQQGVFSCSV MHEALHNHYTQKSLSLSPGK

>XENP023175 human IL15Rα(sushi) (GKPGS)5-human IL15(single-chain)-empty-Fc Fc(216) IgG1 pl(-)
)_Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15Rα(sushi)_(GKPGS)5-human_IL15(single-chain)_Fc(216) IgG1 pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 854-857)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITPSLKCI R/ GKPGSGKPGSGKPGSGKPGSGKPG
S/ NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNVTESGCKE
CEELEEKNIKEFLQSFVHIVQMFINITS/ EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYV
DGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDV
SGFYPSDIAVEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGVFSCSV MHEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216) IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 858)

EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREQYNSTYRVVSVL
TVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTP
VLDSDGSFFLYSKLTVDKSRWQQGVFSCSV MHEALHNHYTQKSLSLSPGK

Figure 104AH

>XENP023343 - human IL15 N65D (GGGGS)1-human IL15Ra(Sushi) (GGGGS)1 Fc(216) IgG1 pl(-)
_Isosteric A C220S/PVA /S267K/L368D/K370S/M428L/N434S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q/M428L/N434S

Chain 1 - human_IL15_N65D_(GGGGS)1_Fc(216)_IgG1_pl(-)

_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (18295) (SEQ ID NOS 859-861)

NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLES GDASIHDTVEDLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTT
PVLDS DGSFFLYSKLTVDKSRWEEQGVFSCSVLHEALHSHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S
(17761) (SEQ ID NOS 862-864)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCI R/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTT PVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSVLHEALHSHYTQKSLSL
PGK

>XENP023472 empty-Fc-IL15 N65D/E87C-human IL15Ra(Sushi-D96/C97) Fc(216) IgG1 pl(-)
_Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - empty_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NO: 865)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTT PVLDS DGSFFLYSKLTVDKSRWEEQGVFSCSVLHEALHSHYTQKSL
SLSPGK

Chain 2 - IL15_N65D/E87C (SEQ ID NO: 866)

NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLES GDASIHDTVEDLIILANNSLS
SNGNVTESGCKCEELEEKNIKEFLQSFVHIVQMFINITS

Chain 3 - IL15Ra(Sushi-D96/C97)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 867-869)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCI RDC/EPKSSDK
THTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFY
PSDIAVEWESNGQPENNYKTT PVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSVLHEALHSHYTQKSLSLSPGK

Figure 104AI

>XENP023473 empty-Fc-IL15_N65D/L52C-human_IL15Ra(Sushi-S40C)_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 – empty_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NO: 870)

EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSGSEFFLYSKLTVDKSRWQQGDFVSCSVMEALHNHYTQKSLS
 LSPGK

Chain 2 - IL15_N65D/L52C (SEQ ID NO: 871)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLLLELQVISCESGDASIHDTVEDLII LANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Chain 3 - IL15Ra(Sushi-S40C)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 872-874)

ITCPPMMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTCSLTCVNLKATNVAHWTPSLKCI R/EPKSSDKTH
 TCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDSGSEFFLYSKLTVDKSRWQQGNVSCSVMEALHNHYTQKSLSLSPGK

>XENP023504 human_IL15_Q108E (GGGGS)1-human_IL15Ra(Sushi) (GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S-
 Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S

Chain 1 – human_IL15_Q108E_(GGGGS)1_Fc(216)_IgG1_pl(-)

)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 875-877)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLLLELQVISLESFGDASIHDTVENLII LANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/GGGGS/EPKSSDKTHTCPPCAPPVAGPSVFLFPP
 KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDSGSEFFLYSKLTVDKSRWQQGDFVSCSVLHEALHSHYTQKSLSLSPGK

**Chain 2 – human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S
 (SEQ ID NOS 878-880)**

ITCPPMMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTCEVNLKATNVAHWTPSLKCI R/GGGGS/EPK
 SSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSPDIAVEWESNGQPENNYKTTTPVLDSGSEFFLYSKLTVDKSRWQQGNVSCSVLHEALHSHYTQKSLSLS
 PGK

>XENP023554 - human_IL15_N1D/N65D (GGGGS)1-human_IL15Ra(Sushi) (GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 - human_IL15_N1D/N65D_(GGGGS)1_Fc(216)_IgG1_pl(-)

)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (18783) (SEQ ID NOS 881-883)

DWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLLLELQVISLESFGDASIHDTVEDLII LANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCAPPVAGPSVFLFPP
 KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDSGSEFFLYSKLTVDKSRWQQGDFVSCSVMEALHNHYTQKSLSLSPGK

**Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908) (SEQ ID
 NOS 884-886)**

ITCPPMMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTCEVNLKATNVAHWTPSLKCI R/GGGGS/EPK
 SSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSPDIAVEWESNGQPENNYKTTTPVLDSGSEFFLYSKLTVDKSRWQQGNVSCSVMEALHNHYTQKSLSLS
 PGK

Figure 104AJ

>XENP023555 - human IL15 N1D/Q108E (GGGGS)1-human IL15Ra(Sushi) (GGGGS)1 Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_N1D/Q108E_(GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (18784) (SEQ ID NOS 887-889)
DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLESQDASIHDTVENLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/ GGGGS/ EPKSSDKTHTCPCPAPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEEQGVFSCSVMEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908) (SEQ ID
NOS 890-892)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLSKCIR/ GGGGS/ EPK
SSDKTHTCPCPAPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSPGK

>XENP023557 - human IL15 N4D/N65D (GGGGS)1-human IL15Ra(Sushi) (GGGGS)1 Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_N4D/N65D_(GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (18786) (SEQ ID NOS 893-895)
NWVDVVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLESQDASIHDTVEDLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/ GGGGS/ EPKSSDKTHTCPCPAPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEEQGVFSCSVMEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908) (SEQ ID
NOS 896-898)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLSKCIR/ GGGGS/ EPK
SSDKTHTCPCPAPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSPGK

>XENP023559 - human IL15 D30N/N65D (GGGGS)1-human IL15Ra(Sushi) (GGGGS)1 Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_D30N/N65D_(GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (18788) (SEQ ID NOS 899-901)
NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCVTAMKCFLELQVISLESQDASIHDTVEDLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/ GGGGS/ EPKSSDKTHTCPCPAPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEEQGVFSCSVMEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908) (SEQ ID
NOS 902-904)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLSKCIR/ GGGGS/ EPK
SSDKTHTCPCPAPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSPGK

Figure 104AK

>XENP023560 human IL15_D30N/Q108E (GGGGS)1-human IL15Ra(Sushi) (GGGGS)1 Fc(216) IgG1 pl(-)
_Isosteric_A C220S/PVA_/S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA_/S267K/S364K/E357Q

Chain 1 - human_IL15_D30N/Q108E_(GGGGS)1_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 905-907)

NWVNVI SDLKKIEDLIQSMHIDATLYTESNVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQS FVHIVEMFINTS /GGGGS/ EPKSSDKTHTCPCPAPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDVVFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS
908-910)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVVFSCVMHEALHNHYTQKSLSL
SPGK

>XENP023561 human IL15_N65D/Q108E (GGGGS)1-human IL15Ra(Sushi) (GGGGS)1 Fc(216) IgG1 pl(-)
_Isosteric_A C220S/PVA_/S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA_/S267K/S364K/E357Q

Chain 1 - human_IL15_N65D/Q108E_(GGGGS)1_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 911-913)

NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQS FVHIVEMFINTS /GGGGS/ EPKSSDKTHTCPCPAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDVVFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS
914-916)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVVFSCVMHEALHNHYTQKSLSLSPGK

>XENP024013 human IL15Ra(sushi) (GGGGS)5-human IL15(D61N;single-chain)-empty-Fc Fc(216) IgG1 pl(-)
_Isosteric_A C220S/PVA_/S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA_/S267K/S364K/E357Q

Chain 1 - human_IL15Ra(sushi)_(GGGGS)5-human_IL15(D61N;single-chain)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 917-920)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGSGGGG
SGGGSGGGSGGGGS/ NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDAS
IHNTVENLII LANNSLSSNGNVTESGCKECEELEEKNIKEFLQS FVHIVQMFINITS /EPKSSDKTHTCPCPAPP
VAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE EYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESD
GQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWEQGDVVFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 921)

EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVVFSCVMHEALHNHYTQKSLSLSPGK

Figure 104AL

>XENP024014 human_IL15Ra(sushi) (GGGGS)5-human_IL15(N65D;single-chain)-empty-Fc Fc(216)_IgG1 pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

**Chain 1 - human_IL15Ra(sushi)_(GGGGS)5-human_IL15(N65D;single-chain)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 922-925)**

ITCPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGSGGGG
SGGGSGGGSGGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES
IHDTVEDLII LANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPP
VAGPSVFLFPPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESD
GQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGVFSCSVMEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 926)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

>XENP024015 human_IL15Ra(sushi) (GGGGS)5-human_IL15(Q108E;single-chain)-empty-
Fc Fc(216)_IgG1 pl(-) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-
Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

**Chain 1 - human_IL15Ra(sushi)_(GGGGS)5-human_IL15(Q108E;single-chain)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 927-930)**

ITCPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGSGGGG
SGGGSGGGSGGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES
IHDTVENLII LANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS/EPKSSDKTHTCPPCPAPP
VAGPSVFLFPPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESD
GQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGVFSCSVMEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 931)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

>XENP024016 human_IL15Ra(sushi) (GGGGS)5-human_IL15(N1D/D61N;single-chain)-empty-
Fc Fc(216)_IgG1 pl(-) Isosteric_A_C220S/PVA_/S267K/L368D/K370S-
Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

**Chain 1 - human_IL15Ra(sushi)_(GGGGS)5-human_IL15(N1D/D61N;single-chain)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 932-935)**

ITCPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGSGGGG
SGGGSGGGSGGGGS/DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES
IHNTVENLII LANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPP
VAGPSVFLFPPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESD
GQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGVFSCSVMEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 936)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

Figure 104AM

>XENP024017 human_IL15(D61N)-human_IL15Ra(Sushi)_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 - human_IL15(D61N)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 937-939)

NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVENLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHI VQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
ALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTT PPVLDS
GSFFLYSKLTVDKSRWEEQGDVFSCSMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 940-942)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTT PPVLDSGGSFFLYSKLTVDKSRWQQGNVFCSCSMHEALHNHYTQKSLSLSPGK

>XENP024018 human_IL15(N65D)-human_IL15Ra(Sushi)_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 - human_IL15(N65D)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 943-945)

NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHI VQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
ALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTT PPVLDS
GSFFLYSKLTVDKSRWEEQGDVFSCSMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 946-948)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTT PPVLDSGGSFFLYSKLTVDKSRWQQGNVFCSCSMHEALHNHYTQKSLSLSPGK

>XENP024019 - human_IL15(Q108E)-human_IL15Ra(Sushi)_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

**Chain 1 - human_IL15(Q108E)-human_IL15Ra(Sushi)_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (19242) (SEQ ID NOS 949-951)**

NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHI VEMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
ALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTT PPVLDS
GSFFLYSKLTVDKSRWEEQGDVFSCSMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (16481) (SEQ ID NOS 952-954)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTT PPVLDSGGSFFLYSKLTVDKSRWQQGNVFCSCSMHEALHNHYTQKSLSLSPGK

Figure 104AN

>XENP024020 - human IL15(N1D/D61N)-human IL15Ra(Sushi) Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15(N1D/D61N)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (19243) (SEQ ID NOS 955-957)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVENLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDS
GSFFLYSKLTVDKSRWEGQDVFSCSMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (16481) (SEQ ID NOS 958-960)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKICIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTP EVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSMHEALHNHYTQKSLSLSPGK

>XENP024043 human IL15 E64Q/N65D (GGGGS)1-human IL15Ra(Sushi) (GGGGS)1 Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_E64Q/N65D_(GGGGS)1_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 961-963)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQDLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/ GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMI SRTP EVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
VLDS DGSFFLYSKLTVDKSRWEGQDVFSCSMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 964-966)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKICIR/ GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTP EVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSMHEALHNHYTQKSLSLSPGK

>XENP024044 human IL15 N1D/N4D/N65D (GGGGS)1-human IL15Ra(Sushi) (GGGGS)1 Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15_N1D/N4D/N65D_(GGGGS)1_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 967-969)

DWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/ GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMI SRTP EVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
VLDS DGSFFLYSKLTVDKSRWEGQDVFSCSMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 970-972)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKICIR/ GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTP EVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSMHEALHNHYTQKSLSLSPGK

Figure 104AO

>XENP024045 human IL15_D30N/E64Q/N65D (GGGGS)1-
human IL15Rα(Sushi) (GGGGS)1 Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 – human_IL15_D30N/E64Q/N65D_(GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 973-975)
NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCVTAMKCFLELQVISLESQDASIHDTVQDLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/GGGGS/EPKSSDKTHTCPPCPAPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWQQGDFVFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 – human_IL15Rα(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS
976-978)
ITCPPPMSEVHADIIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLS
PGK

>XENP024048 human IL15_N4D/D61N/N65D (GGGGS)1-
human IL15Rα(Sushi) (GGGGS)1 Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 – human_IL15_N4D/D61N/N65D_(GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 979-981)
NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLESQDASIHNTVEDLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWQQGDFVFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 – human_IL15Rα(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS
982-984)
ITCPPPMSEVHADIIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLS
PGK

>XENP024050 human IL15Ra(sushi) (GGGGS)5-human IL15_N4D/N65D (single-chain)-empty-
Fc Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15Ra(sushi)_(GGGGS)5-human_IL15_N4D/N65D_(single-chain)_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 985-988)
ITCPPPMSEVHADIIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGSGGGG
SGGGSGGGSGGGG/NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLESQDAS
IHDTVEDLII LANNSLS SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPP
VAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESD
GQPENNYKTTTPPVLDS DGSFFLYSKLTVDKSRWQQGDFVFSCVMHEALHNHYTQKSLSLSPGK

Figure 104AO (continued)**Chain 2 – empty_ Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 989)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKENWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVVKLT
CLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVVFSCVMHEALHNHYTQKSL
SLSPGK

Figure 104AP

>XENP024051 human IL15 N1D/N65D-human IL15 α (Sushi) Fc(216) IgG1 pl(-)
)_Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 – human_IL15_N1D/N65D-human_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 990-992)
DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVEDLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDS
GSFFLYSKLTVDKSRWEEQGDVFSCSVMEALHNHYTQKSLSLSPGK

Chain 2 – human_IL15 α (Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 993-995)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDSGGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

>XENP024052 human IL15 N4D/N65D-human IL15 α (Sushi) Fc(216) IgG1 pl(-)
)_Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 – human_IL15_N4D/N65D-human_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 996-998)
NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVEDLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDS
GSFFLYSKLTVDKSRWEEQGDVFSCSVMEALHNHYTQKSLSLSPGK

Chain 2 – human_IL15 α (Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 999-1001)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDSGGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

>XENP024113 human IL15 N4D/N65D (GGGGS)1-human IL15 α (Sushi) (GGGGS)1 Fc(216) IgG1 pl(-)
)_Isosteric A C220S/PVA /S267K/L368D/K370S/M428L/N434S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q/M428L/N434S

Chain 1 – human_IL15_N4D/N65D_(GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 1002-1004)
NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESQDASIHDTVEDLII LANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
VLDSGGSFFLYSKLTVDKSRWEEQGDVFSCSVLHEALHSHYTQKSLSLSPGK

Chain 2 – human_IL15 α (Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S
(SEQ ID NOS 1005-1007)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSGGSFFLYSKLTVDKSRWQQGNVFCFSVLHEALHSHYTQKSLSL
SPGK

Figure 104AQ

>XENP024301 human IL15_N4D/N65D-human IL15Rα(Sushi) Fc(216) IgG1 pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S-
Fc(216) IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S

Chain 1 – human_IL15_N4D/N65D_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 1008-1010)
 NWVDVLSDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVEDLIILANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYCKVSNK
 ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDS
 DGSFFLYSKLTVDKSRWEGQDVFSCSVLHEALHSHYTKQKSLSLSPGK

Chain 2 – human_IL15Rα(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S (SEQ ID
 NOS 1011-1013)
 ITCPPPMSEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCI/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVLHEALHSHYTKQKSLSLSPGK

>XENP024306 human IL15_D30N/E64Q/N65D (GGGGS)1-
human IL15Rα(Sushi) (GGGGS)1 Fc(216) IgG1 pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S-
Fc(216) IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S

Chain 1 – human_IL15_D30N/E64Q/N65D_(GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 1014-1016)
 NWVNVLSDLKKIEDLIQSMHIDATLYTESNVHPSCVTAMKCFLELQVISLES GDASIHDTVQDLIIILANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDS DGSFFLYSKLTVDKSRWEGQDVFSCSVLHEALHSHYTKQKSLSLSPGK

Chain 2 – human_IL15Rα(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S
 (SEQ ID NOS 1017-1019)
 ITCPPPMSEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCI/ GGGGS/EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVLHEALHSHYTKQKSLSL
 PGK

Figure 104AR

>XENP024341 human IL15 N1D/N65D-human IL15R α (Sushi) Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S/M428L/N434S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q/M428L/N434S

Chain 1 – human_IL15_N1D/N65D-human_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 1020-1022)
DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTPVLDS
GSFFLYSKLTVDKSRWEQGDVFSCSVLEALHSHYTKQSLSLSPGK

Chain 2 – human_IL15R α (Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S (SEQ ID
NOS 1023-1025)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVLEALHSHYTKQSLSLSPGK

>XENP024342 human IL15(non-covalent; Q108E)-human IL15R α (Sushi) Fc(216) IgG1 C220S/PVA /S267K

Chain 1 – human_IL15R α (Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K (SEQ ID NOS 1026-1028)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMEALHNHYTKQSLSLSPGK

Chain 2 – human_IL15(non-covalent; Q108E) (SEQ ID NO: 1029)
NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINITS

>XENP024346 human IL15(non-covalent; Q108E)-
human IL15R α (Sushi) Fc(216) IgG1 C220S/PVA /S267K/M428L/N434S

Chain 1 – human_IL15R α (Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/M428L/N434S (SEQ ID NOS 1030-1032)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVLEALHSHYTKQSLSLSPGK

Chain 2 – human_IL15(non-covalent; Q108E) (SEQ ID NO: 1033)
NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINITS

Figure 104AS

>XENP024348 IL15(non-covalent)-human IL15Ra(Sushi) empty-Fc Fc(216) IgG1 pl(-)
Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 – IL15 WT (SEQ ID NO: 1034)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 – human IL15Ra(Sushi) Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S (SEQ ID NOS 1035-1037)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPPKDITLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDGGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

Chain 3 – empty Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q (SEQ ID NO: 1038)

EPKSSDKTHITCPPCPAPPVAGPSVFLFPPPKDITLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

>XENP024349 IL15 Q108E (non-covalent)-human IL15Ra(Sushi) empty-Fc Fc(216) IgG1 pl(-)
Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 – human IL15Ra(Sushi) Isosteric A C220S/PVA /S267K/L368D/K370S (SEQ ID NOS 1039-1041)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPPKDITLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDGGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

Chain 2 – empty Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q (SEQ ID NO: 1042)

EPKSSDKTHITCPPCPAPPVAGPSVFLFPPPKDITLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

Chain 3 – IL15_Q108E (non-covalent) (SEQ ID NO: 1043)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS

>XENP024351 human IL15(non-covalent; N4D/N65D)-
human IL15Ra(Sushi) Fc(216) IgG1 C220S/PVA /S267K/M428L/N434S

Chain 1 – IL15(N4D/N65D) (SEQ ID NO: 1044)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVEDLIILANNSLSSNGNVTESGCKECE
LEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human IL15Ra(Sushi) Fc(216) IgG1 C220S/PVA /S267K/M428L/N434S (SEQ ID NOS 1045-1047)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTHITCPPCPAPPVAGPSV
FLFPPPKDITLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPA
PIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFS CSVLHEALHSHYTQKSLSLSPGK

Figure 104AT

>XENP024383 IL15 Q108E (non-covalent)-human IL15Ra(Sushi) empty-Fc Fc(216) IgG1 pl(-)
) Isosteric A C220S/PVA /S267K/L368D/K370S/M428L/N434S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q/M428L/N434S

Chain 1 - IL15_Q108E (SEQ ID NO: 1048)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLII LANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_pl(-)

) Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 1049-1051)

ITCPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCI R/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVFS CSVLHEALHSHY TQKSLSLSPGK

Chain 3 – empty_ Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S (SEQ ID NO: 1052)

EPKSSDKTHITCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPYPSDIAEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVLHEALHSHY TQKSL
SLSPGK

>XENP024475 human IL15Ra(sushi) (GGGGS)6-human IL15(single-chain;Q108E)-empty-
Fc Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15Ra(sushi)_(GGGGS)6-human_IL15(single-chain;Q108E)_Fc(216)_IgG1_pl(-)

) Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 1053-1056)

ITCPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCI R/GGGSGGGG
SGGGSGGGSGGGSGGGG/ NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLE
SGDASIHDTVENLII LANNSLSNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS/EPKSSDKTHITCPP
CPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVS
VLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAV
EWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVFS CSVMHEALHSHY TQKSLSLSPGK

Chain 2 – empty_ Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 1057)

EPKSSDKTHITCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPYPSDIAEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHSHY TQKSL
SLSPGK

Chain 1 - human_IL15Ra(sushi)_(GGGGG)6-human_IL15(single-chain;N4D/N65D)_Fc(216)_IgG1_pl(-)
() Isosteric A C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 1058-1061)

Chain 2 – empty Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q (SEQ ID NO: 1062)

>XENP024477 human IL15Ra(sushi) (GGGGS)7-human IL15(single-chain)-empty-Fc Fc(216) IgG1 pI(-)
| Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15Ra(sushi)_(GGGGS)7-human_IL15(single-chain)_Fc(216)_IgG1_pl(-)
Isosteric A C220S/PVA /S267K/L368D/K370S (SEQ ID NOS 1063-1066)

Chain 2 – empty Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q (SEQ ID NO: 1067)

>XENP024478 human IL15Ra(sushi) (GGGGS)7-human IL15(single-chain;Q108E)-empty-

Fc Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15Ra(sushi)_(GGGGS)7-human_IL15(single-chain;Q108E)-Fc(216)_IgG1_pl(-)
Isosteric A C220S/PVA /S267K/L368D/K370S (SEQ ID NOS 1068-1071)

ITCPPPMSEVHADIIWVKSYSLSYRERYICNSGFKRKAGTSSLTCEVLNKATNVAHWTPSLKICIR/GGGGSGGGG
SGGGSGGGGSGGGSGGGSGGGG/NWNVVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQ
 VISLESGDASIHDTVENLII LANNSLSSNGNVTESGCKECELEEKNIKEFLQS FVHIVEMFINTS/EPKSSDKT
 HTCPCPCAPPVAGSVFLFPFKPKDTLMSRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAAKTPKREEEYNST
 YRVVSVLTVHLQDWLNGKEYKKCKSNKALPAIEKTIKAKGQPREPQVYTLSPREEMHNAAKQVSLTCDVSGFYP
 SDIAVEWESDGGPENNYKTTTPVLDSGSGFF-YSLKLTVDKSRWEGQDVFSVSMHREALHNHYTOKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 1072)

EPKSSDKTHTCTPCPAPPVAGPSVFLFPKPKDLMISRTPEVTCVVVDVKHEDPEVKFNVYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVQLT
CLVKGFPYSPDIAVEWESNGQPENNYKTTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSMHEALHNHYTQKSL
SLSPGK

Figure 104AV

>XENP024479 human IL15Ra(sushi) (GGGGS)7-human IL15(single-chain;N4D/N65D)-empty-
Fc Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

**Chain 1 - human_IL15Ra(sushi)_(GGGGS)7-human_IL15(single-chain;N4D/N65D)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 1073-1076)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
SGGGSGGGSGGGSGGGSGGGSGGGG/NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQ
VISLESGDASIHDTVEDLIILANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKT
HTCPPCPAPPVAGPSVFLFPPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNST
YRVVSVLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
SDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGDVFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - empty-Fc_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 1077)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

>XENP024480 human IL15Ra(sushi) (30AA linker variant)-human IL15(single-chain)-empty-
Fc Fc(216) IgG1 pl(-) Isosteric A C220S/PVA /S267K/L368D/K370S-
Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

**Chain 1 - human_IL15Ra(sushi)_(30AA linker variant)-human_IL15(single-chain)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 1078-1081)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/DPALVHQR
APPGGGSGGGSGGGSGGGG/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLEQVISLE
SGDASIHDTVENLIILANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPP
CPAPPVAGPSVFLFPPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVV
SVLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAV
EWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGDVFSCVMHEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 1082)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Figure 104AW

>XENP024481 human_IL15Ra(sushi)_(30AA_linker_variant)-human_IL15(single-chain;Q108E)-empty-Fc Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q

Chain 1 - human_IL15Ra(sushi)_(30AA_linker_variant)-human_IL15(single-chain;Q108E)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 1083-1086)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTCEVLNKATNVAHWTTPSLKCIR/DPALVHQRP
APPGGGSGGGSGGGSGGGG/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVLSLE
SGDASIHDVTENLII LANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/EPKSSDKTHTCPP
CPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVS
VLTVLHQDWLNGKEYCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAV
EWESDQGPPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 1087)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLS
LSPGK

>XENP024890 IL15_N4D/N65D (non-covalent)-human_IL15Ra(Sushi)-empty-Fc IgG1 Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S-IgG1_PVA_/S267K/S364K/E357Q

Chain 1 – IL-15_N4D/N65D (SEQ ID NOS 1088-1090)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTCEVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDQGPPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 1091-1093)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTCEVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDQGPPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 3 – empty_Fc(216)_IgG1_PVA_/S267K/S364K/E357Q (SEQ ID NO: 1094)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLS
LSPGK

Figure 104AX

>XENP25138 IL15_D30N/E64Q/N65D (non-covalent)-empty-Fc Fc(216) IgG1 pl(-)
) Isosteric A_C220S/PVA_/S267K/L368D/K370S-IgG1 PVA_/S267K/S364K/E357Q

Chain 1 - IL15_D30N/E64Q/N65D (SEQ ID NO: 1095)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCVTAMKCFLELQVISLESQDASIHDTVQDLII LANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID
 NOS 1096-1098)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCI/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
 DIAVEWESDGPENNYKTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

Chain 3 - empty_Fc(216)_IgG1_PVA_/S267K/S364K/E357Q (SEQ ID NO: 1099)

EPKSSDKTHITCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CLVKGFPYPSDIAVEWESNGQPENNYKTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLS
 SLSPGK

>XENP025938 human_IL15Ra(sushi) (GGGGS)5-human_IL15_N4D/N65D (single-chain)-empty-
 Fc Fc(216) IgG1 pl(-) Isosteric A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S-
 Fc(216) IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S

Chain 1 - human_IL15Ra(sushi) (GGGGS)5-human_IL15_N4D/N65D (single-chain)-Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 1100-1103)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCI/ GGGGS/ NWV
 S/ NWVDVVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLESQDASIHDTVEDLI LANNSLS SNGNVTESGCKE
 CEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHITCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYV
 DGEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDV
 SGFYPSDIAVEWESDGPENNYKTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFS CSVLHEALHSHYTQKSLSLSPGK

Chain 2 - empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S (SEQ ID NOS 1104-1108)

EPKSSDKTHITCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVL
 TVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFPYPSDIAVEWESNGQPENNYKTTP
 VLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVLHEALHSHYTQKSLSLSPGK

human_IL15Ra(sushi)(single-chain)-human_IL15_Fc(216) IgG1_C220S/PVA_/S267K; corresponding to Figure
 14

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCI/ GGGGS/ NWV
 NVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLESQDASIHDTVENLI LANNSLS SNG
 NVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHITCPPCPAPPVAGPSVFLFPPKPKDTLMI S
 RTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALP
 API EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFPYPSDIAVEWESNGQPENNYKTTPVLDSDGSF
 FLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

Figure 104AY

empty-Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S_(GGGGG)2_IL15Ra(Sushi)_IL15(single-
chain)_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q; corresponding to Figure 16

Chain 1 - empty-Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S_(GGGGG)2_IL15Ra(Sushi)_IL15(single-chain) (SEQ ID NOS
1109-1112)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWEEQGDVFSCSMHEALHNHYTQKSL
SLSPGK/GGGGSGGGGS/ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWT
TPSLKCIR/GGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLESGDASIH
DTVENLIILANNSLSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q (8927) (SEQ ID NO: 1113)

ERKSSDKTHTCPRCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFKWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREQMTKNQVSLT
CLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSMHEALHNHYTQKSL
SLSPGK

Figure 104AZ**IL-15 and IL-15 receptor Sequences - corresponds to Figure 2****Human IL-15 precursor sequence (SEQ ID NO: 1114)**

>sp|P40933

MRISKPHLRISIQCYLCLLLNHFLTEAGIHVFILGCFSAGLPKTEANWVNVISDLKKIEDLIQSMHIDATLYT
ESDVHPSCKVTAMKCFLLLELQVISLES GDASIHDTVENLII LANNSLSSNGNVTESGCKECEEELEEKNIKEFLQS
FVHIVQMFINTS

Human IL-15 mature form sequence (SEQ ID NO: 1115)

>sp|P40933|49-162

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES GDASIHDTVENLII LANNSL
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

Human IL-15R α sequence (SEQ ID NO: 1116)

>sp|Q13261

MAPRRARGCRTLGLPALLLLLLLRPPATRGITCPPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSSLTEC
VLNKATNVAHWTTPSLKCIRD PALVHQRPAPPSTVTTAGVTPQPESLSPSGKEPAASSPSSNNTAATTAIIVPGS
QLMPSPSTGTTEISSHESHGTPSQTTAKNWELTASASHQPPGVYPQGHSDTTVAISTSTVLLCGLSAVSLLA
CYLKS RQTPPLASVEMEAMEALPVTWGTSSRDEDLNC SHHL

Human IL-15R α , extracellular domain (SEQ ID NO: 1117)

>sp|Q13261|31-205

ITCPPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD PALVHQRP
APPSTVTTAGVTPQPESLSPSGKEPAASSPSSNNTAATTAIIVPGSQLMPSPSTGTTEISSHESHGTPSQTTA
KNWELTASASHQPPGVYPQGHSDTT

Human IL-15R α , sushi domain (SEQ ID NO: 1118)

>sp|Q13261|31-95

ITCPPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

Human IL-15R β sequence (SEQ ID NO: 1119)

>sp|P14784

MAAPALSWRLPLILLLPLATSWASAAVNGTSQFTCFYNSRANISCVWSQDGALQDTSQVHAWPDRRRWNQTCE
LLPVSQASWACNLILGAPDSQKLTTVDIVTLRVLCREGVRWRVMAIQDFKPFENLRMAPISLQVVHVETHRCNI
SWEISQASHYFERHLEFEARTLSPGHTWEEAPLLTLKQKQEWICLETLPDTQYEFQVRVKPLQGEFTTWS PWSQ
PLAFRTKPAALGKDTIPWLGHLVGLSGAFGFIILVYLLINCRNTGPWLKKVLKCNTPDPSKFFS QLSSEHGGDV
QKWLSSPFPSSSFSPGGLAPEISPLEVLERDKVTQLLLQQDKVPEPASLSSNHS LTSCFTNQGYFFHLPDALEI
EACQVYFTYDYPSEEDPDEGVAGAPTGSSPQLQPLSGEDDAYCTFPSRDDLLLFSPSLGGPSPSTAPGGSGA
GEERMPPSLQERVPRDWDPPPLGPPTPGVPDLVDFQPPPELVREAGEEVPDAGPREGVSPWWSRPPGQGEFRAL
NARLPLNTDAYLSLQELQGQDPHTLV

Human IL-15R β , extracellular domain (SEQ ID NO: 1120)

>sp|P14784|27-240

AVNGTSQFTCFYNSRANISCVWSQDGALQDTSQVHAWPDRRRWNQTCELLPV SQASWACNLILGAPDSQKLTTV
DIVTLRVLCREGVRWRVMAIQDFKPFENLRMAPISLQVVHVETHRCNISWEISQASHYFERHLEFEARTLSPGH
TWEEAPLLTLKQKQEWICLETLPDTQYEFQVRVKPLQGEFTTWS PWSQPLAFRTKPAALGKDT

Figure 104BA

Human common gamma chain sequence (SEQ ID NO: 1121)

>sp|P31785

MLKPSLPFTSLLEFLQLPLLGVLNTTILTPNGNEDTTADFFLTMTPTDLSVSTLPLPEVQCFVFNVEYMNCTWN
SSSEPQPTNLTLYHYKNSDNDKVQKCSHYLFSEEITSGCQLQKKEIHLTYQTFVVQLQDPREPRRQATQMLKLQN
LVI PWAPENLT LHKLS ESQLELNWNNRFLNHCLEHLVQYRTDWDHSWTEQSVDYRHKFSLPSVDGQKRYTFRVRS
RFNPLCGSAQHWSEWSHP IHWGSNTSKENPFLFALEAVVISVGSMGLII SLLCVYFWLERTMPRI PTLKNLEDLV
TEYHG NFSAWSGVSKGLAESLQPDYSERLCLVSEI PPKGGALGEGPGASPCNQHSPLYWAPPCYTLKPET

Human common gamma chain, extracellular domain (SEQ ID NO: 1122)

>sp|P31785|23-262

LNTTILTPNGNEDTTADFFLTMTPTDLSVSTLPLPEVQCFVFNVEYMNCTWNSSEPQPTNLTLYHYKNSDND
KVQKCSHYLFSEEITSGCQLQKKEIHLTYQTFVVQLQDPREPRRQATQMLKLQNLVI PWAPENLT LHKLS ESQLEL
NWNRRFLNHCLEHLVQYRTDWDHSWTEQSVDYRHKFSLPSVDGQKRYTFRVRSRFNPLCGSAQHWSEWSHP IHWG
SNTSKENPFLFALEA

Figure 104BB

Linker Sequences - corresponds to Figure 7

	SEQ ID NO
GGGGS	14
GGGGSGGGGS	15
GGGGSGGGGSGGGGS	16
GGGGSGGGGSGGGGSGGGGS	17
GGGGSGGGGSGGGGSGGGGSGGGGS	18
GGGGSGGGGSGGGGSGGGGSGGGGSGGGGS	19
GGGGSGGGGSGGGGSGGGGSGGGGSGGGGSGGGGS	20
DPALVHQRPPGGGGSGGGGSGGGGSGGG	21
GKPGS	22
GKPGSGKPGSGKPGSGKPGSGKPGS	23
GKPGSGKPGSGKPGSGKPGSGKPGSGKPGS	24
GGGES	25

Figure 104BC

Backbone Sequences – corresponds to Figure 9IL-15/R α -Fc Backbone 1>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1123)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREQMTKNQVQLTCLVKGFPYSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1124)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 2>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1125)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVQLTCLVKGFPYSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1126)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 3>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1127)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVQLTCLVKGFPYSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1128)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCEVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

Figure 104BD

IL-15/R α -Fc Backbone 4**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1129)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSEKGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1130)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTENEVSLTCLVKGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLEVDSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 5**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1131)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSRDQLTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1132)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSRDELTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 6**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1133)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREQMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1134)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

Figure 104BE

IL-15/R α -Fc Backbone 7**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1135)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYSSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREQMTKNQVQLTCLVKGFPYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1136)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYSSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGFYPYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 8**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1137)**

ESKYGPPCPCPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQEDPEVQFNWYVDGVEVHN
AKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTLPPS
QEEMTKNQVQLTCLVKGFPYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSRLTVDKSRWQEGNV
FSCSVMEALHNHYTQKSLSLSLGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1138)

ESKYGPPCPCPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQEDPEVQFNWYVDGVEVHN
AKTKPREEEFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTLPPS
QEEMTKNQVSLTCDVSGFYPYPSDIAVEWESDGPENNYKTPPVLDSDGSFFLYSRLTVDKSRWEEGDV
FSCSVMEALHNHYTQKSLSLSLGK

IL-15/R α -Fc Backbone 9**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1139)**

ERKCCVECPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVQFNWYVDGVEVHNA
KTKPREEQFNSTFRVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSR
EQMTKNQVQLTCLVKGFPYPSDIAVEWESNGQPENNYKTPPMLDSDGSFFLYSKLTVDKSRWQQGNVF
SCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1140)

ERKCCVECPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVQFNWYVDGVEVHNA
KTKPREEEFNSTFRVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSR
EEMTKNQVSLTCDVSGFYPYPSDIAVEWESDGPENNYKTPPMLDSDGSFFLYSKLTVDKSRWEQGDVF
SCSVMEALHNHYTQKSLSLSPGK

Figure 104BF

IL-15/R α -Fc Backbone 10**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1141)**

ERKCCVECPPCAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVQFNWYVDGVEVHNA
KTKPREEQFNSTFRVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSR
EQMTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTPMLDSDGSFFLYSKLTVDKSRWQQGNVF
SCSVMHEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1142)

ERKCCVECPPCAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVQFNWYVDGVEVHNA
KTKPREEEFNSTFRVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSR
EEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTPMLDSDGSFFLYSKLTVDKSRWEQGDVF
SCSVMHEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 11**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1143)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLP
PSREQMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPVLDSGFFLYSKLTVDKSRWQQG
NVFSCSVLHEALHSHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1144)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLP
PSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTPVLDSGFFLYSKLTVDKSRWEQG
DVFSCSVLHEALHSHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 12**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1145)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLP
PSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPVLDSGFFLYSKLTVDKSRWQQG
NVFSCSVMHEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1146)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLP
PSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPVLDSGFFLYSKLTVDKSRWQQG
NVFSCSVMHEALHNHYTQKSLSLSPGK

Figure 104BG**IL-15/R α -Fc Backbone 13****>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1147)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLF
PSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMHEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1148)

ERKSSDKTHTCPRCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFKWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLF
PSREQMTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMHEALHNHYTQKSLSLSPGK

Figure 104BH**Example 2A sequences****IL-15R α (sushi-D96) of Figure 27 (SEQ ID NO: 1149)**ITCPPPMSVEHADIWKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCI~~RD~~**IL-15R α (sushi-D96/P97) of Figure 27 (SEQ ID NO: 1150)**ITCPPPMSVEHADIWKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCI~~RDP~~**IL-15R α (sushi-D96/P97/A98) of Figure 27 (SEQ ID NO: 1151)**ITCPPPMSVEHADIWKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCI~~RDP~~A**IL-15(E87C) of Figure 28 (SEQ ID NO: 1152)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES~~GD~~ASIHDTVENLII
LANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFIN~~S~~**IL-15(V49C) of Figure 28 (SEQ ID NO: 1153)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQ~~CIS~~LES~~GD~~ASIHDTVENLII
LANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFIN~~S~~**IL-15(L52C) of Figure 28 (SEQ ID NO: 1154)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVIS~~CS~~ES~~GD~~ASIHDTVENLII
LANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFIN~~S~~**IL-15(E89C) of Figure 28 (SEQ ID NO: 1155)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES~~GD~~ASIHDTVENLII
LANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFIN~~S~~**IL-15(Q48C) of Figure 28 (SEQ ID NO: 1156)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELCVISLES~~GD~~ASIHDTVENLII
LANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFIN~~S~~**IL-15(E53C) of Figure 28 (SEQ ID NO: 1157)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISL~~CS~~GDASIHDTVENLII
LANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFIN~~S~~**of Figure 28****IL-15(C42S) (SEQ ID NO: 1158)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMK~~S~~FLLELQVISLES~~GD~~ASIHDTVENLII
LANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFIN~~S~~**IL-15(L45C) of Figure 28 (SEQ ID NO: 1159)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCF~~L~~CELQVISLES~~GD~~ASIHDTVENLII
LANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFIN~~S~~

Figure 104B1**IL-15R α (sushi-D96/C97) of Figure 29 (SEQ ID NO: 1160)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD C

IL-15R α (sushi-D96/P97/C98) of Figure 29 (SEQ ID NO: 1161)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDPC

IL-15R α (sushi-D96/C97/A98) of Figure 29 (SEQ ID NO: 1162)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDCA

IL-15R α (sushi-S40C) of Figure 29 (SEQ ID NO: 1163)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTTPSLKCIR

IL-15R α (sushi-K34C) of Figure 29 (SEQ ID NO: 1164)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFCKRAGTSSLTECVLNKATNVAHWTTPSLKCIR

IL-15R α (sushi-G38C) of Figure 29 (SEQ ID NO: 1165)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKACTSSLTECVLNKATNVAHWTTPSLKCIR

IL-15R α (sushi-L42C) of Figure 29 (SEQ ID NO: 1166)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSCTECVLN KATNVAHWTTPSLKCIR

IL-15R α (sushi-A37C) of Figure 29 (SEQ ID NO: 1167)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKCGTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 104BJ

IL-15 Variant Sequences – corresponds to Figure 47**N1D (SEQ ID NO: 1168)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHTVENLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

N4D (SEQ ID NO: 1169)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHTVENLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

D8N (SEQ ID NO: 1170)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHTVENLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

D30N (SEQ ID NO: 1171)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHTVENLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

D61N (SEQ ID NO: 1172)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHTVENLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

E64Q (SEQ ID NO: 1173)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHTVQNLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

N65D (SEQ ID NO: 1174)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHTVEDLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Q108E (SEQ ID NO: 1175)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHTVENLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVEMFINTS

N1D/D61N (SEQ ID NO: 1176)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHTVENLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Figure 104BK**N1D/E64Q (SEQ ID NO: 1177)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVQNLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

N4D/D61N (SEQ ID NO: 1178)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHNTVENLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

N4D/E64Q (SEQ ID NO: 1179)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVQNLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

D8N/D61N (SEQ ID NO: 1180)

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHNTVENLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

D8N/E64Q (SEQ ID NO: 1181)

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVQNLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

D61N/E64Q (SEQ ID NO: 1182)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHNTVQNLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

E64Q/Q108E (SEQ ID NO: 1183)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVQNLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

N1D/N4D/D8N (SEQ ID NO: 1184)

DWVDVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHNTVENLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

D61N/E64Q/N65D (SEQ ID NO: 1185)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHNTVQDLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

N1D/D61N/E64Q/Q108E (SEQ ID NO: 1186)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHNTVQNLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

N4D/D61N/E64Q/Q108E (SEQ ID NO: 1187)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHNTVQNLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFTLQSFVHIVQMFINTS

Figure 104BL**N1D/N65D (SEQ ID NO: 1188)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVEDLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

N1D/Q108E (SEQ ID NO: 1189)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVEMFINTS

N4D/N65D (SEQ ID NO: 1190)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVEDLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

D30N/N65D (SEQ ID NO: 1191)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCKVTAMKCFLELQVISLESGDASIHDTVEDLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

D30N/Q108E (SEQ ID NO: 1192)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVEMFINTS

N65D/Q108E (SEQ ID NO: 1193)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVEDLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVEMFINTS

E64Q/N65D (SEQ ID NO: 1194)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVQDLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

N1D/N4D/N65D (SEQ ID NO: 1195)

DWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVEDLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

D30N/E64Q/N65D (SEQ ID NO: 1196)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCKVTAMKCFLELQVISLESGDASIHDTVQDLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

N4D/D61N/N65D (SEQ ID NO: 1197)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHNTVEDLII LANNSLSSNGNVTESGCKECEE
LEEKNIKEFTQSFVHIVQMFINTS

Figure 105

5201

<u>Non-Xtend</u>	<u>Xtend</u>	<u>Format</u>	<u>Substitutions</u>
22822	23504	IL-15/R α -heteroFc	Q108E
24045	24306	IL-15/R α -heteroFc	D30N/E64Q/N65D
22821	23343	IL-15/R α -heteroFc	N65D
23557	24113	IL-15/R α -heteroFc	N4D/N65D
24051	24341	IL-15/R α -heteroFc	N1D/N65D
24052	24301	IL-15/R α -heteroFc	N1D/N65D
		bivalent ncIL-	
24342	24346	15/R α -Fc	Q108E
24349	24383	ncIL-15/R α -Fc	Q108E

Figure 106

XENP	Heterodimer-skewing variant, Chain 1	Heterodimer-skewing variant, Chain 2	Heterodimer Yield (%)	CH3 Tm (°C)
12757	none	none	52.7	83.1
12758	L368D/K370S	S364K	94.4	76.6
12759	L368D/K370S	S364K/E357L	90.2	77.2
12760	L368D/K370S	S364K/E357Q	95.2	77.5
12761	T411E/K360E/Q362E	D401K	85.6	80.6
12496	L368E/K370S	S364K	91.5	n.d.
12511	K370S	S364K	59.9	n.d.
12840	L368E/K370S	S364K/E357Q	59.5	n.d.
12841	K370S	S364K/E357Q	90.4	n.d.
12894	L368E/K370S	S364K	41.0	n.d.
12895	K370S	S364K	49.3	n.d.
12896	L368E/K370S	S364K/E357Q	73.9	n.d.
12901	K370S	S364K/E357Q	87.9	n.d.