

Figure 1

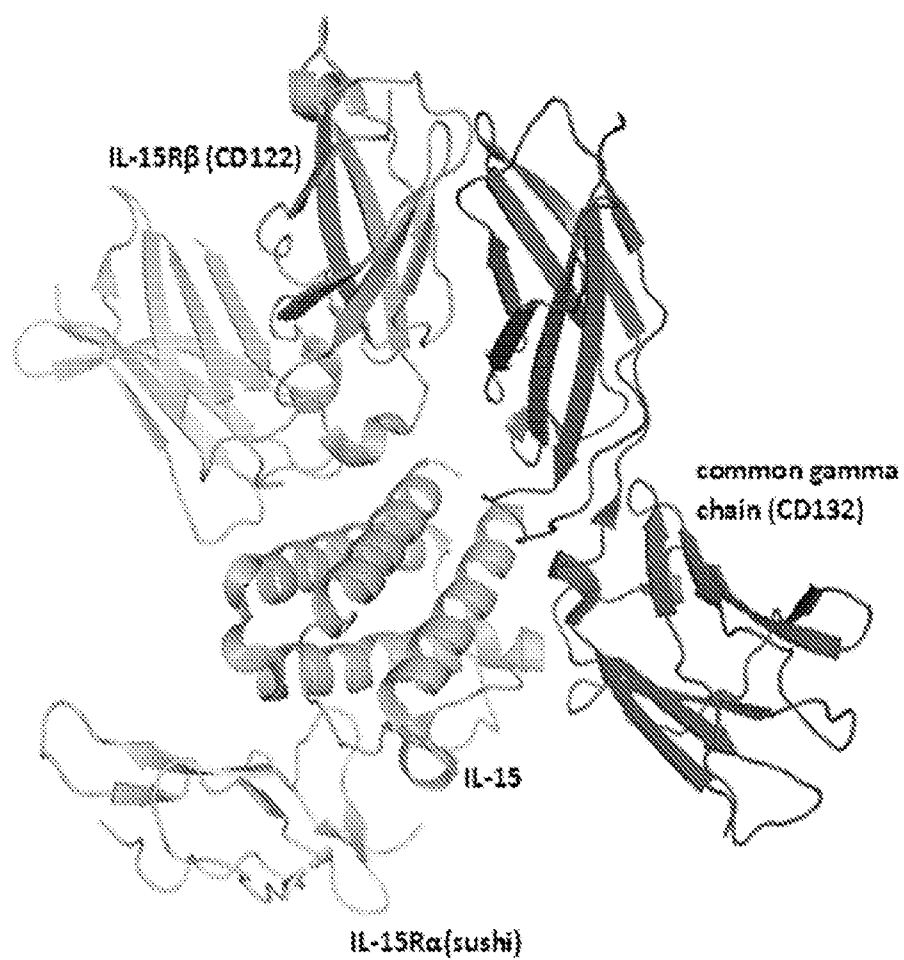


Figure 2A**Human IL-15 precursor sequence (SEQ ID NO: 5)**

>sp|P40933
MRISKPHLRISISIQCYLCLLLNSHFLTEAGIHVFILGCFSAGLPKTEANWVNVI SDLKKI EDLIQSMHIDATLYT
ESDVHPSCKVTAMKCFLLELQVISLES GDASIHDTVENLIILANNSLSSNGNVTESGCKECEEELEEKNIKEFLQS
FVHIVQMFINTS

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

>sp|P40933|49-162
NWVNVI SDLKKI EDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLES GDASIHDTVENLIILANNSL
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

Human IL-15 α sequence (SEQ ID NO: 7)

>sp|Q13261
MAPRRARGCRTLGLPALLLLLLLRPPATRGITCPPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSSLTEC
VLNKATNVAHWTTPSLKCIRD PALVHQRPA PPSTVT TAGVTPQPE SLSPSGKEPAASSPSSNNTAATTAAIVPGS
QLMP SKSPSTGTTEISSHESHGTPSQTTAKNWELTASASHQPPGVYPQGHSDTTVAISTSTVLLCGLSAVSLLA
CYLKS RQTPPLASVEMEAMEALPVTWGTSSRDELENC SHHL

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

>sp|Q13261|31-205
ITCPPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD PALVHQRPA
PPSTVT TAGVTPQPE SLSPSGKEPAASSPSSNNTAATTAAIVPGSQLMP SKSPSTGTTEISSHESHGTPSQTTA
KNWELTASASHQPPGVYPQGHSDTT

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

>sp|Q13261|31-95
ITCPPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

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

>sp|P14784
MAAPALSWRLPLLI LLLPLATSWASAAVNGTSQFTCFYNSRANISCVWSQD GALQD TSCQVHAWPDRRRWNQTCE
LLPV SQASWACNLILGAPDSQKLTTVDIVTLRVLCREGVRWRVMAIQDFKPFENLR LMAPISLQVVHVETHRCNI
SWEISQASHYFERHLEFEARTLSPGHTWEEAPLLTLKQKQEWICLETLPD TQYEFQVRVKPLQGEFTTWSPWSQ
PLAFRTKPAALGKDTIPWLGHLVLGSGAFGFII LVYLLINCRNTGPWLKKVLKCNTPDP SKFFS QLSSEHGGDV
QKWLSSPFPSSSFSPGGLAPEISP LEVLERDKVTQ LLLQ QDKVPEASLSSNHS LTSCFTNQGYFFFHLPDALEI
EACQVYFTYDPYSEEDPDEGVAGAPTGSSPQPLQPLSGEDDAYCTFPSRDDLLLFSPSLLGGPSPSTAPGGSGA
GEERMPPSLQERVPRDWDPPQLGPPTPGVPDLVDFQPPPELV LREAGEEVPDAGPREGVSFPWSRPPGQGEFRAL
NARLPLNTDAYLSLQELQGQDPTHLV

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

>sp|P14784|27-240
AVNGTSQFTCFYNSRANISCVWSQD GALQD TSCQVHAWPDRRRWNQTCELLPV SQASWACNLILGAPDSQKLTTV
DIVTLRVLCREGVRWRVMAIQDFKPFENLR LMAPISLQVVHVETHRCNISWEISQASHYFERHLEFEARTLSPGH
TWEEAPLLTLKQKQEWICLETLPD TQYEFQVRVKPLQGEFTTWSPWSQPLAFRTKPAALGKDT

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

```
>sp|P31785
MLKPSLPFTSLLFLQLPLLGVGLNTTILTPNGNEDTTADFFLTTP?TDSL SVSTLPLPEVQCFVFNVEYMNCTWN
SSSEPQPTNLT LHYWYKNSDNDKVQKCSHYLFSEEITSGCQLQKKEIHLYQTFVVQLQDPREPRRQATQMLKLQN
LVIPWAPENLT LHKLSQSLELNWNNRFLNHCLEHLVQYRTDWDHSWTEQSVDRHKFSLPSVDGQKRYTFRVRS
RFNPLCGSAQHWSEWSHPIHWGSNTSKENPFLFALEAVVISVGSMLIISLLCVYFWLERTMPRIPTLKNLEDLV
TEYHGNFSAWSGVSKGLAESLQPDYSERLCLVSEIPPKGGALGEGPGASPCNQHSPLYWAPPCTYTLKPET
```

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

```
>sp|P31785|23-262
LNTTILTPNGNEDTTADFFLTTPMTDSL SVSTLPLPEVQCFVFNVEYMNCTWNSSEPQPTNLT LHYWYKNSDND
KVQKCSHYLFSEEITSGCQLQKKEIHLYQTFVVQLQDPREPRRQATQMLKLQNLVIPWAPENLT LHKLSQSLEL
NWNRRFLNHCLEHLVQYRTDWDHSWTEQSVDRHKFSLPSVDGQKRYTFRVRSRFNPLCGSAQHWSEWSHPIHWG
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 E233P/L234V/L235A/G236_/S267K	FcKO E233P/L234V/L235A/G236_/S267K
$\pm$ M428L/N434S	$\pm$ M428L/N434S

Figure s 6B	
sclL-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 E233P/L234V/L235A/G236_/S267K	FcKO 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 E233P/L234V/L235A/G236_/S267K	FcKO 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 E233P/L234V/L235A/G236_/S267K	FcKO 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 E233P/L234V/L235A/G236_/S267K	FcKO 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	GGGGSGGGGSGGGGS	16
(GGGGS) ₄	GGGGSGGGGSGGGGSGGGGS	17
(GGGGS) ₅	GGGGSGGGGSGGGGSGGGGSGGGGS	18
(GGGGS) ₆	GGGGSGGGGSGGGGSGGGGSGGGGSGGGGS	19
(GGGGS) ₇	GGGGSGGGGSGGGGSGGGGSGGGGSGGGGSGGGGS	20
30AA-linker	DPALVHQRPAAPPGGGGSGGGGSGGGGSGGG	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
PSREQMTKNQVKLTCLVKGFIYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGFIYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVKLTCLVKGFIYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGFIYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVKLTCLVKGFIYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCEVSGFIYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

Figure 8B

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSKGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTENEVSLTCLVKGFYPSDIAVEWESDGGQENNYKTTTPVLDSKGSFFLYSKLEVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSRDQLTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSKGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSRDELTKNQVSLTCDVSGFYPSDIAVEWESDGGQENNYKTTTPVLDSKGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREQMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSKGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGGQENNYKTTTPVLDSKGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

Figure 8C

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYSSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREQMTKNQVKLTCLVKGIFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYSSYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTPVLDSDGSFFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

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

ESKYGPCCPPCPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQEDPEVQFNWYVDGVEVHN
AKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTLPPS
QEEMTKNQVSLTCLVKGIFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFFLYSRLTVDKSRWQEGNV
FSCSVMEALHNHYTQKSLSLSLGK

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

ESKYGPCCPPCPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQEDPEVQFNWYVDGVEVHN
AKTKPREEEFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTLPPS
QEEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTPVLDSDGSFFFLYSRLTVDKSRWEEGDV
FSCSVMEALHNHYTQKSLSLSLGK

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

ERKCCVECPCCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVQFNWYVDGVEVHNA
KTKPREEQFNSTFRVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSR
EQMTKNQVKLTCLVKGIFYPSDIAVEWESNGQPENNYKTTTPMLDSDGSFFFLYSKLTVDKSRWQQGNVF
SCSVMEALHNHYTQKSLSLSPGK

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

ERKCCVECPCCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVQFNWYVDGVEVHNA
KTKPREEEFNSTFRVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSR
EEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTPMLDSDGSFFFLYSKLTVDKSRWEQGDVF
SCSVMEALHNHYTQKSLSLSPGK

Figure 8D

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

ERKCCVECPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVQFNWYVDGVEVHNA
KTKPREEQFNSTFRVVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSR
EQMTKNQVKLTCLVKGFPYPSDIAVEWESNGQPENNYKTTTPMLDSDGSEFFLYSKLTVDKSRWQQGNV
SCSVMHEALHNHYTQKSLSLSPGK

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

ERKCCVECPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVQFNWYVDGVEVHNA
KTKPREEEFNSTFRVVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSR
EEMTKNQVSLTCDVSGFPYPSDIAVEWESDGQPENNYKTTTPMLDSDGSEFFLYSKLTVDKSRWEQGDV
SCSVMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTL
PSREQMTKNQVKLTCLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSEFFLYSKLTVDKSRWQQG
NVFSCSVLHEALHSHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTL
PSREEMTKNQVSLTCDVSGFPYPSDIAVEWESDGQPENNYKTTTPVLDSDGSEFFLYSKLTVDKSRWEQ
DVFSCSVLHEALHSHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTL
PSREEMTKNQVSLTCLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSEFFLYSKLTVDKSRWQQG
NVFSCSVMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTL
PSREEMTKNQVSLTCLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSEFFLYSKLTVDKSRWQQG
NVFSCSVMHEALHNHYTQKSLSLSPGK

Figure 8E

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLP
PSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTPVLDSGSSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

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

ERKSSDKTHTCPRCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFKWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLP
PSREQMTKNQVKLTCLVKGFIYPSDIAVEWESNGQPENNYKTTTPVLDSGSSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

FIGURE 9A

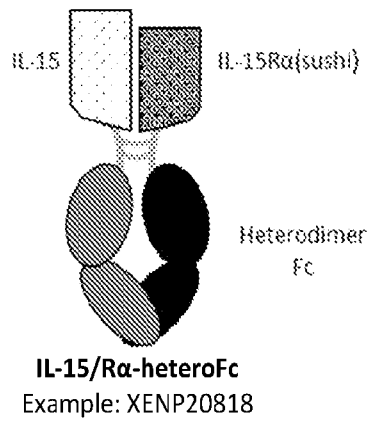


FIGURE 9B

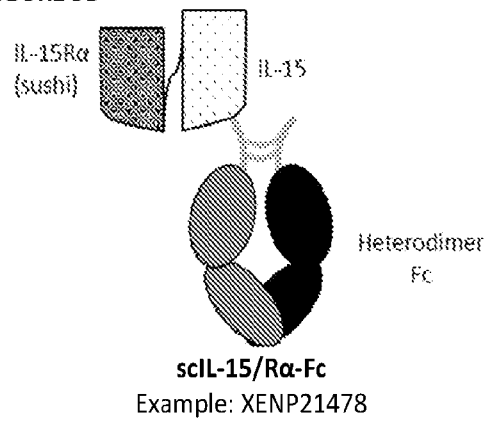


FIGURE 9C

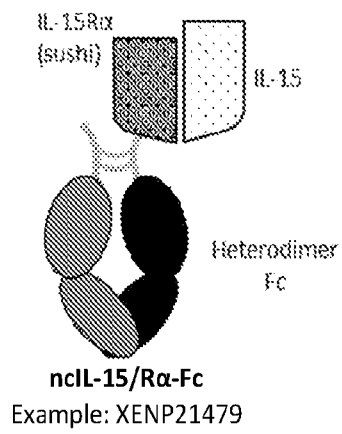


FIGURE 9D

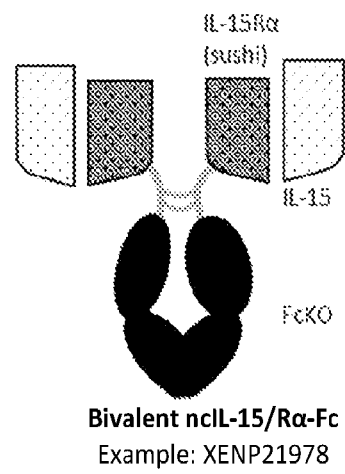


FIGURE 9E

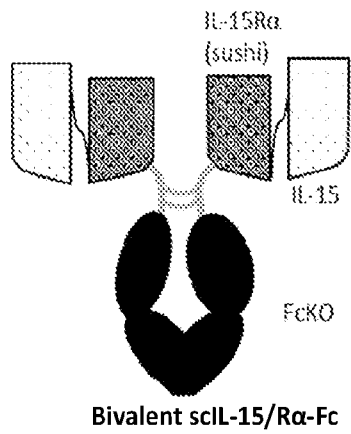


FIGURE 9F

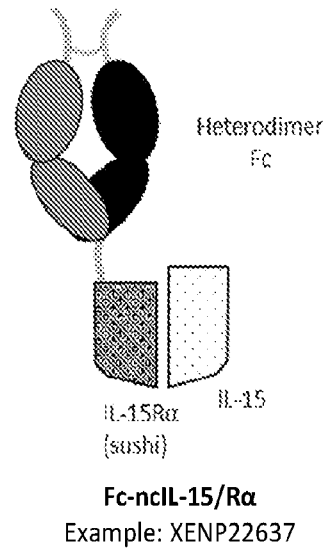


FIGURE 9G

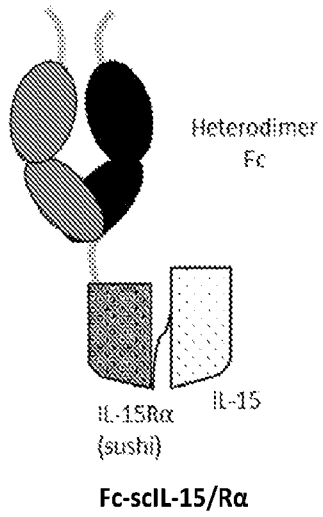


Figure 10

>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)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/ EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
 PVLDS DGSFFLYSKLTVDKSRWEQGDVFSCVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSVEHADIWVKSYSLYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLSLSPGK

>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)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTPVLDS D
 GSFFLYSKLTVDKSRWEQGDVFSCVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSVEHADIWVKSYSLYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLSLSPGK

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)**

ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGSGGGG
SGGGSGGGSGGGSGGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLE
SGDASIHDTVENLIILANNSLSSNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPP
CPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVS
VLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAV
EWESDQGPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWEQGDVFSCSMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKL
CLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQGNVFSCSMHEALHNHYTQKS
LSLSPGK

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)**

NWVNVI SDLKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVDFSCVMHEALHNHYTQKSLS
 LSPGK

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

ITCPPPMSVEHADIWVKSYSLYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVDFSCVMHEALHNHYTQKSLSLSPGK

**>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)**

NWVNVI SDLKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVDFSCVMHEALHNHYTQKSLS
 LSPGK

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

ITCPPPMSVEHADIWVKSYSLYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVDFSCVMHEALHNHYTQKSLSLS
 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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVSLT
CLVKGFPYPSDIAVEWESNGQPNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSL
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)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVQLHQLNGLSKYSKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSPGK

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLLLEQLVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQS FVHIVQMFINTS

Figure 14

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/NWV
NVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASI HDTVENLIILANNSLSNG
NVTESGCKECEELEEKNIKEFLQS FVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMIS
RTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALP
APIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSF
FLYSKLTVDKSRWQQGNV FSCVMHEALHNHYTQKSLSLSPGK

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)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSCVMHEALHNHYTQKSL
 SLSPGK/GGGSGGGGS/ITCPPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWT
TPSLKCIR

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

ERKSSDKTHTCPPCPAPPVAGPSVFLFPPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFKWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
 CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCVMHEALHNHYTQKSL
 SLSPGK

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQS FVHIVQMFINTS

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)

EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGDVFSCSVMEALHNHYTQKSL
SLSPGK/GGGGS/ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWT
TPSLKCIR/GGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIH
DTVENLIIILANNSLSSNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q (8927) (SEQ ID NO: 101)

ERKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFKWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVVFSCSVMEALHNHYTQKSL
SLSPGK

Figure 17A

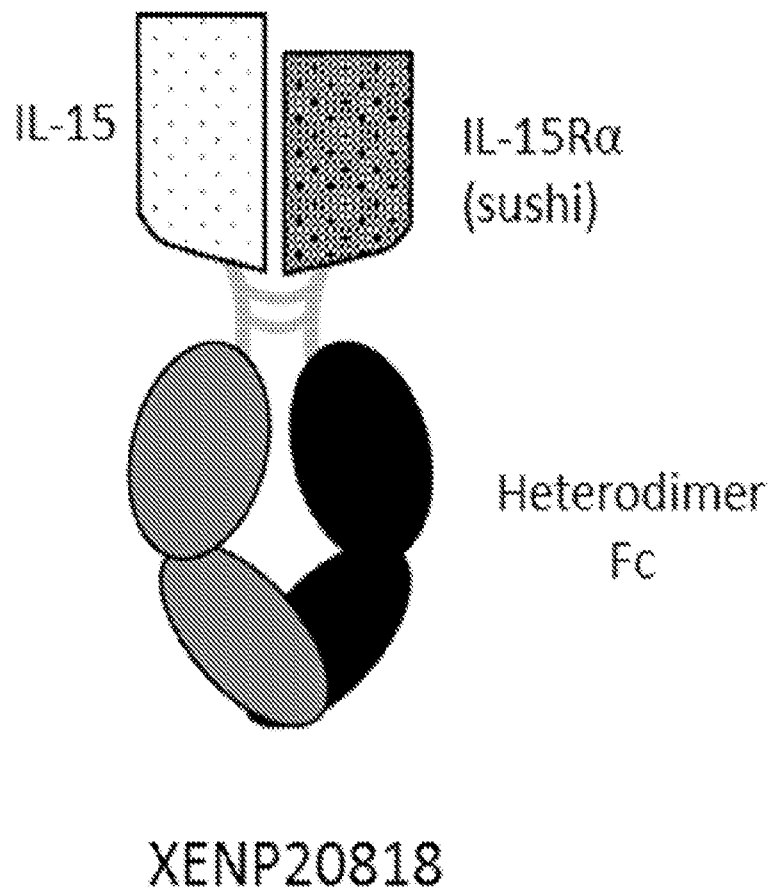
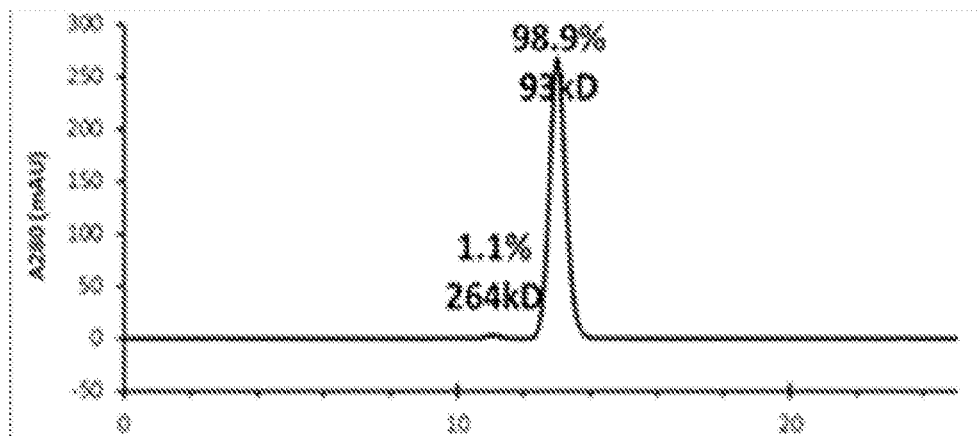


Figure 17B



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

Figure 17C

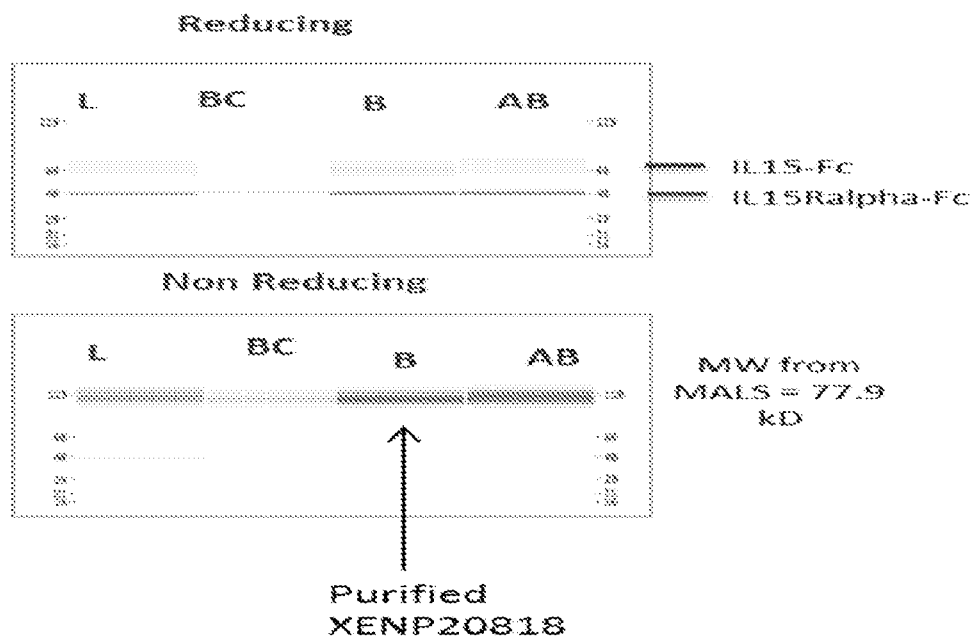
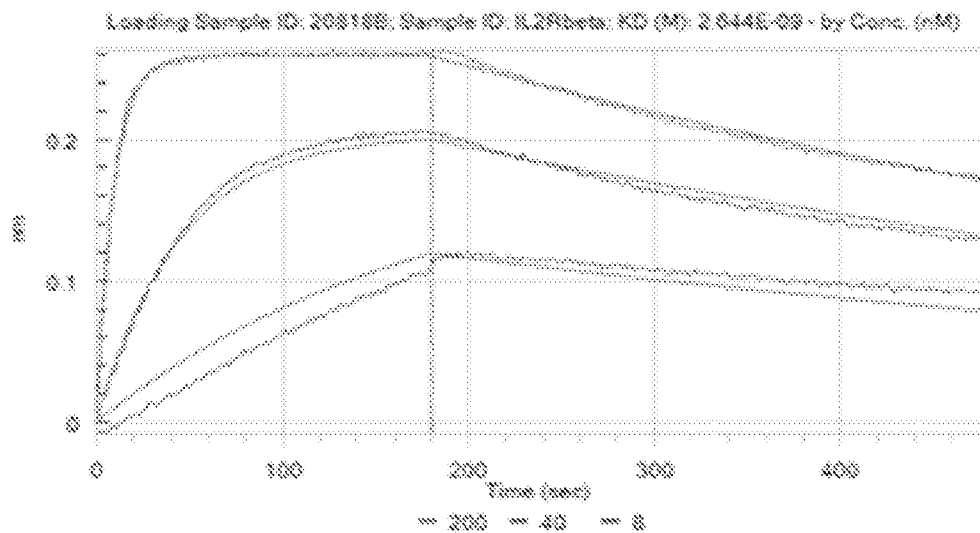


Figure 17D



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

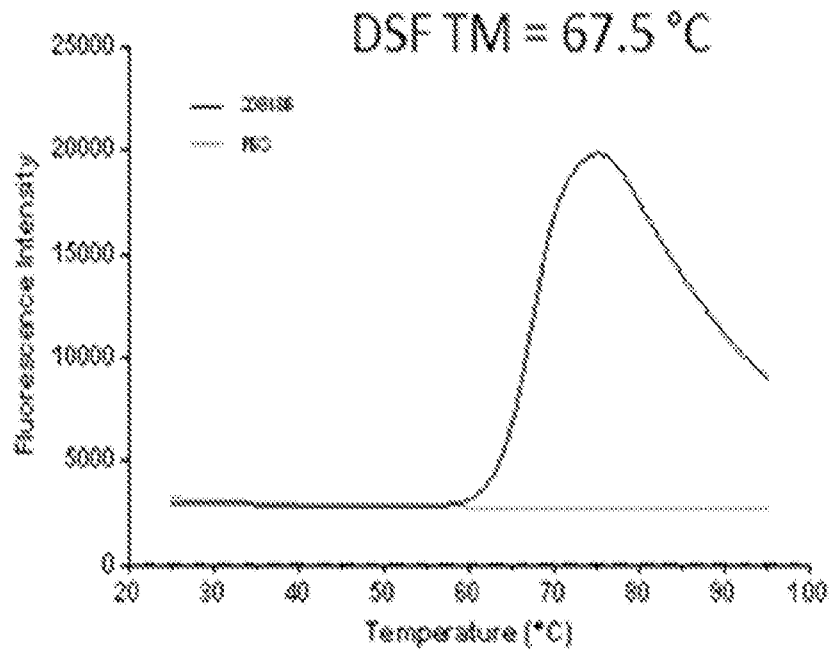


Figure 18A

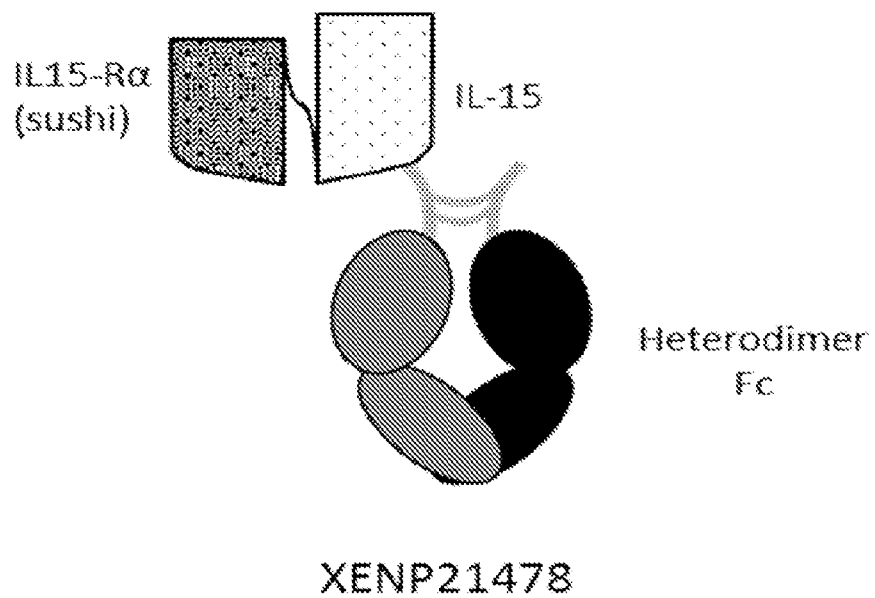
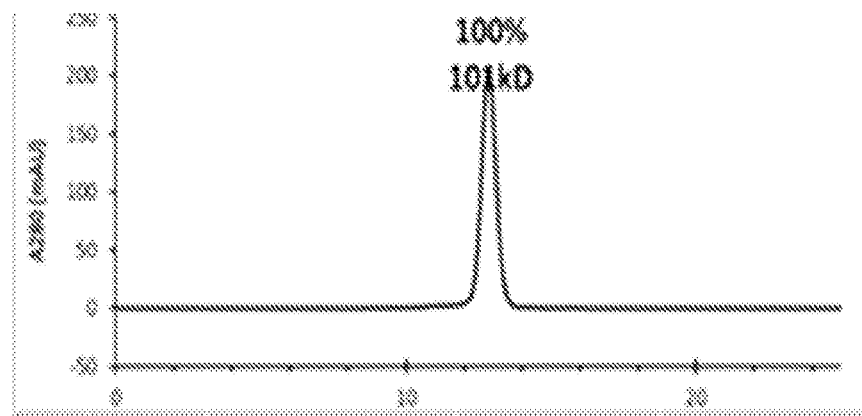


Figure 18B



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

Figure 18C

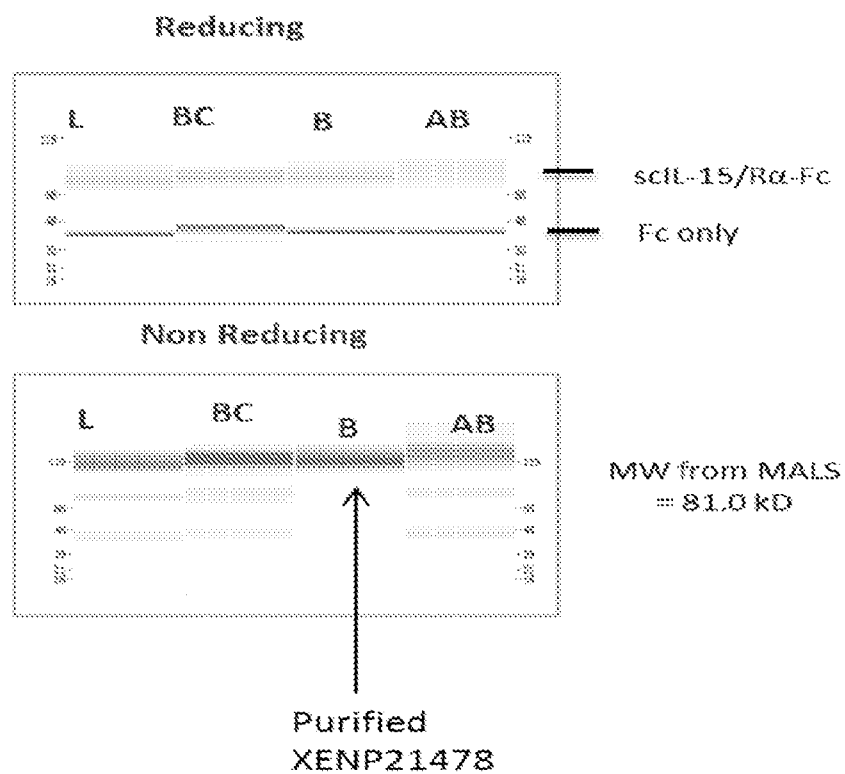
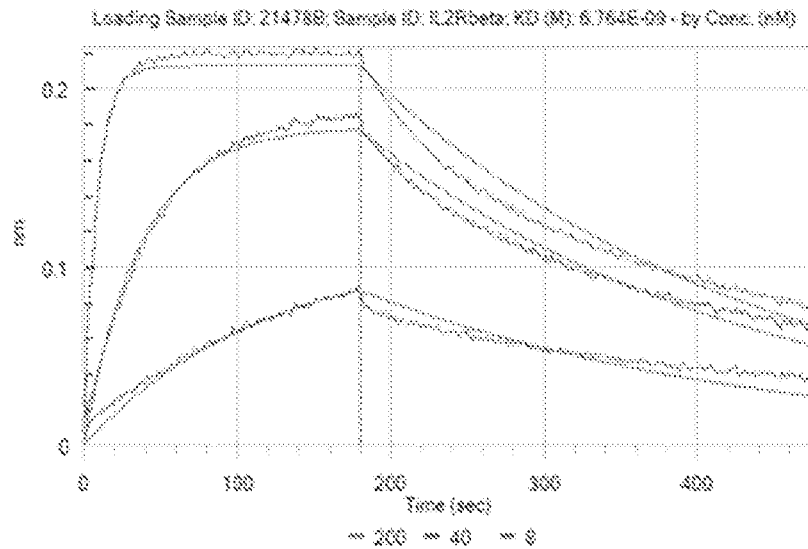


Figure 18D



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

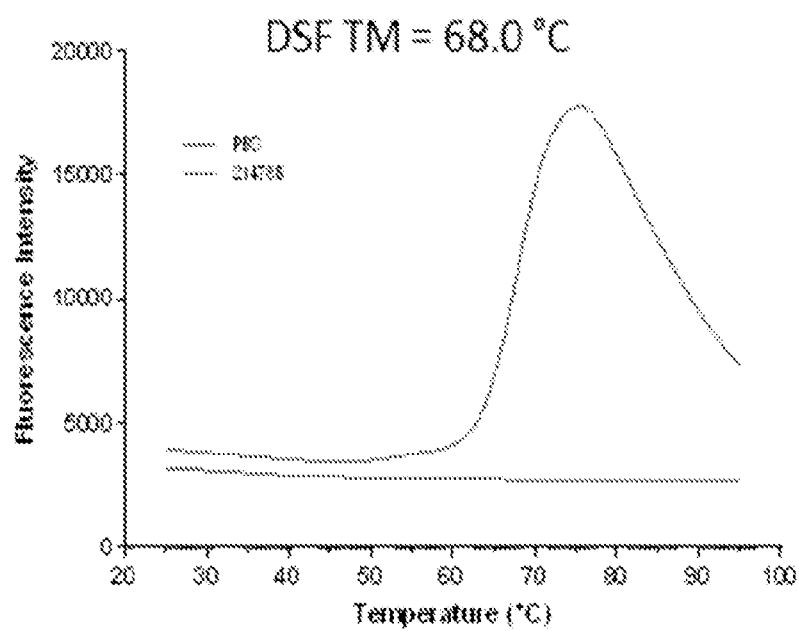


Figure 19A

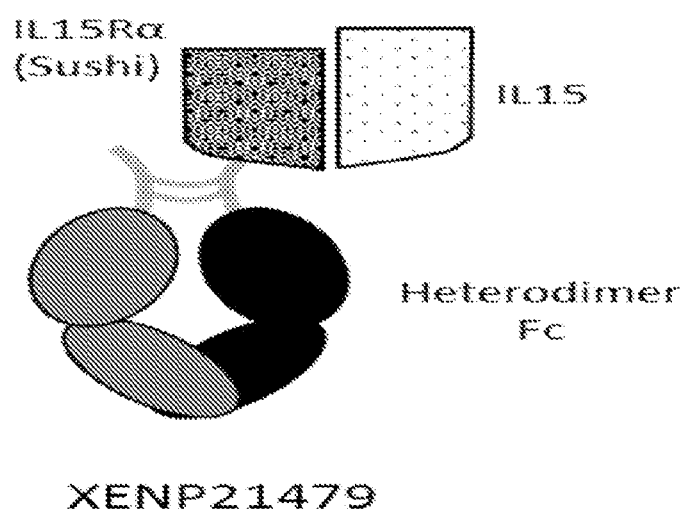
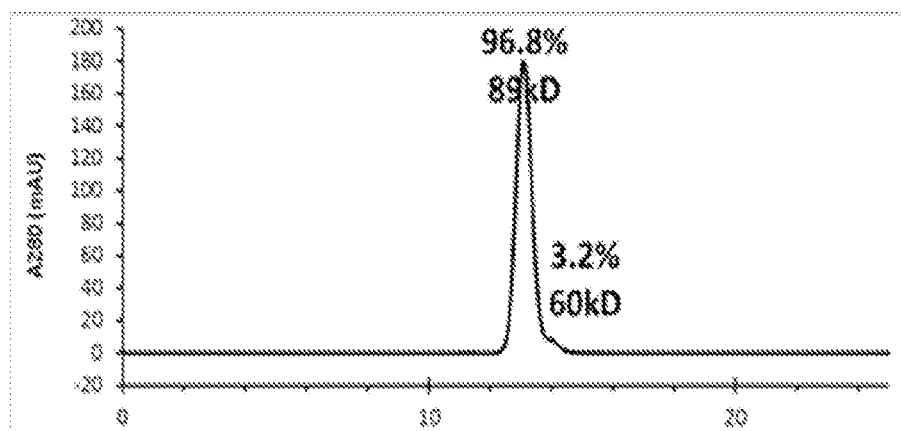


Figure 19B



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

Figure 19C

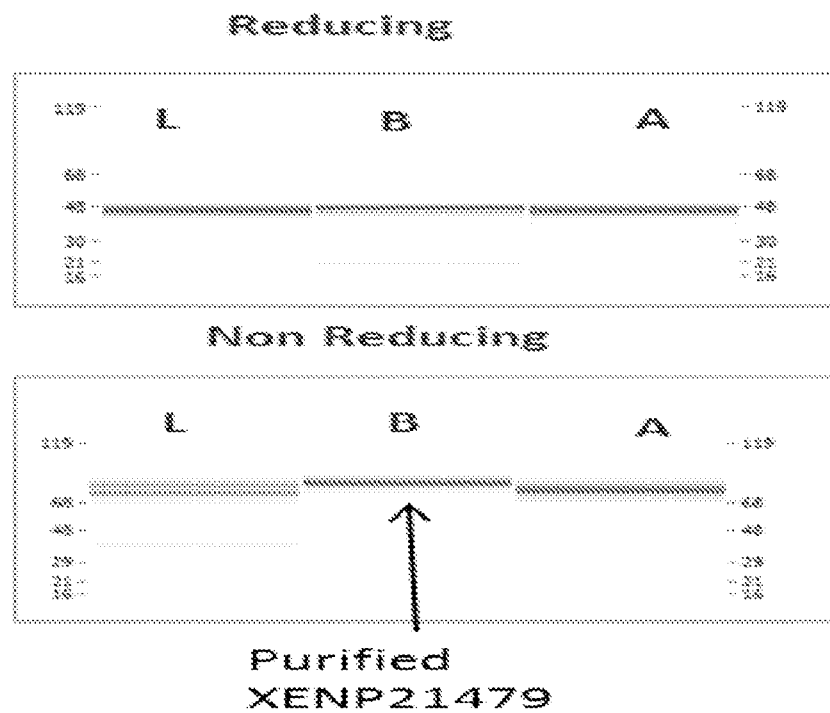
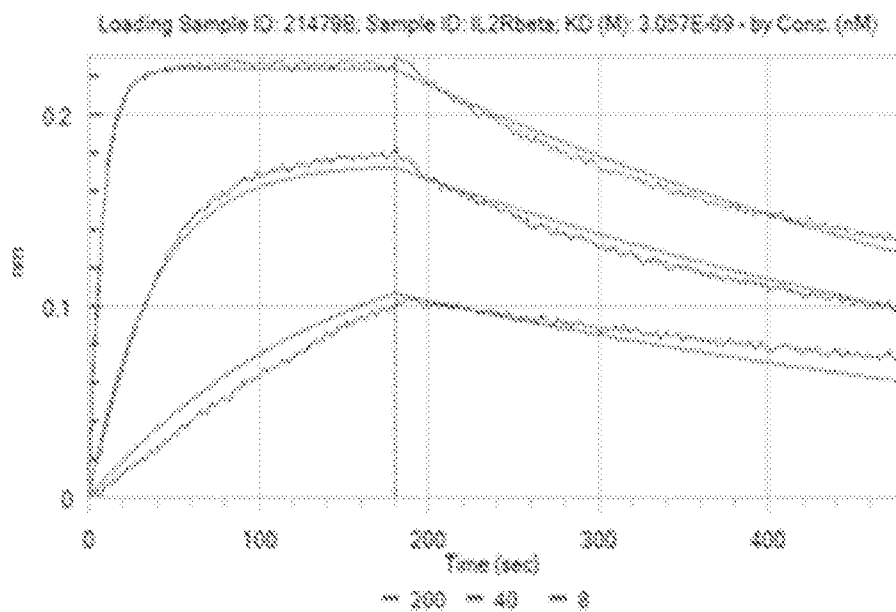


Figure 19D



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

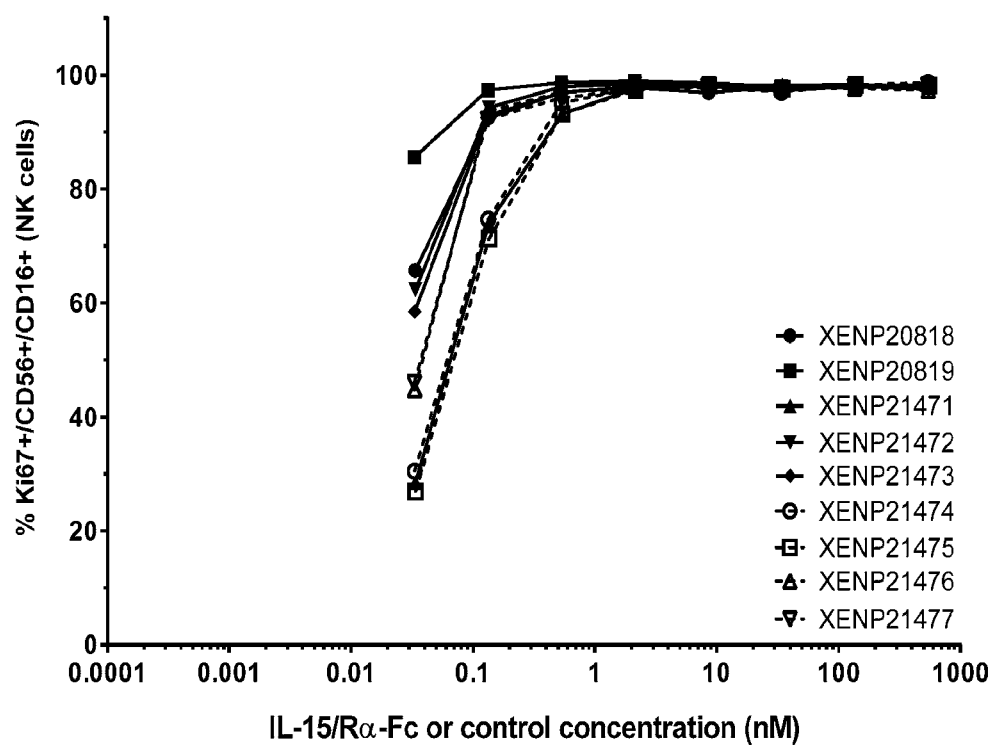
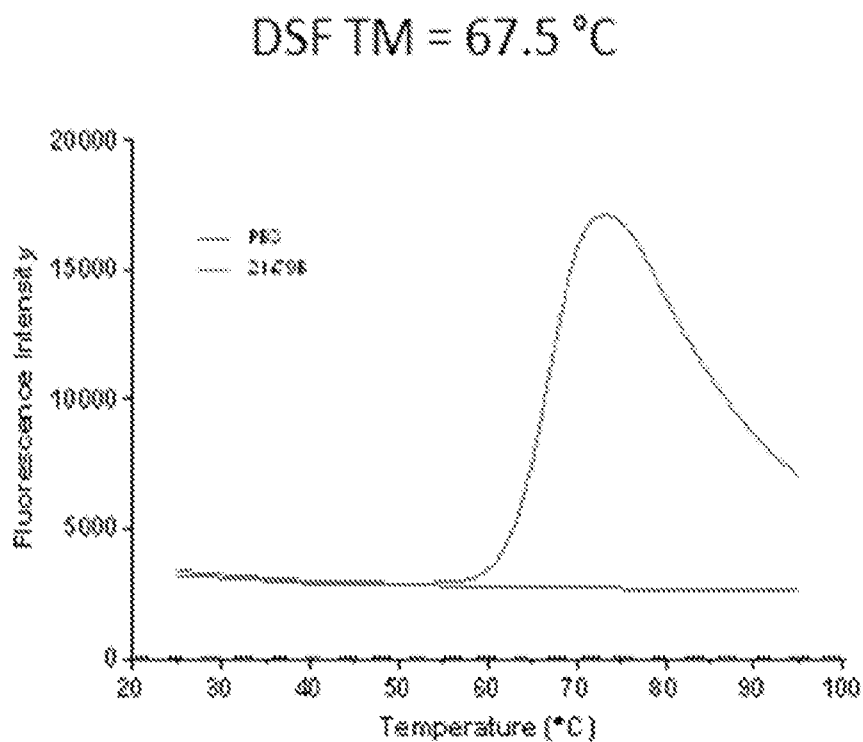


Figure 20B

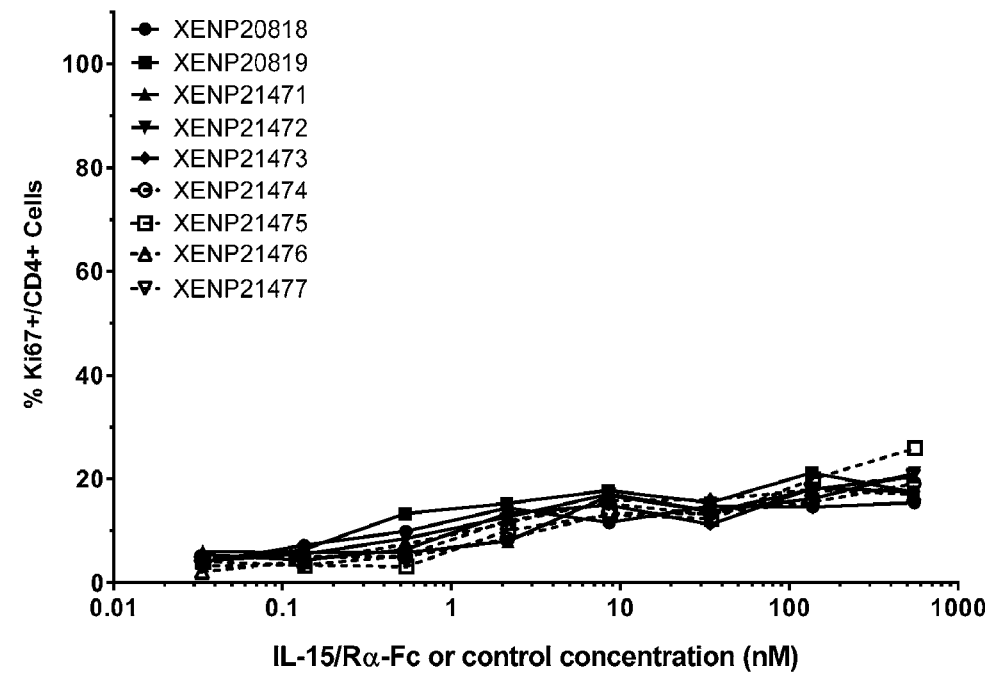


Figure 20C

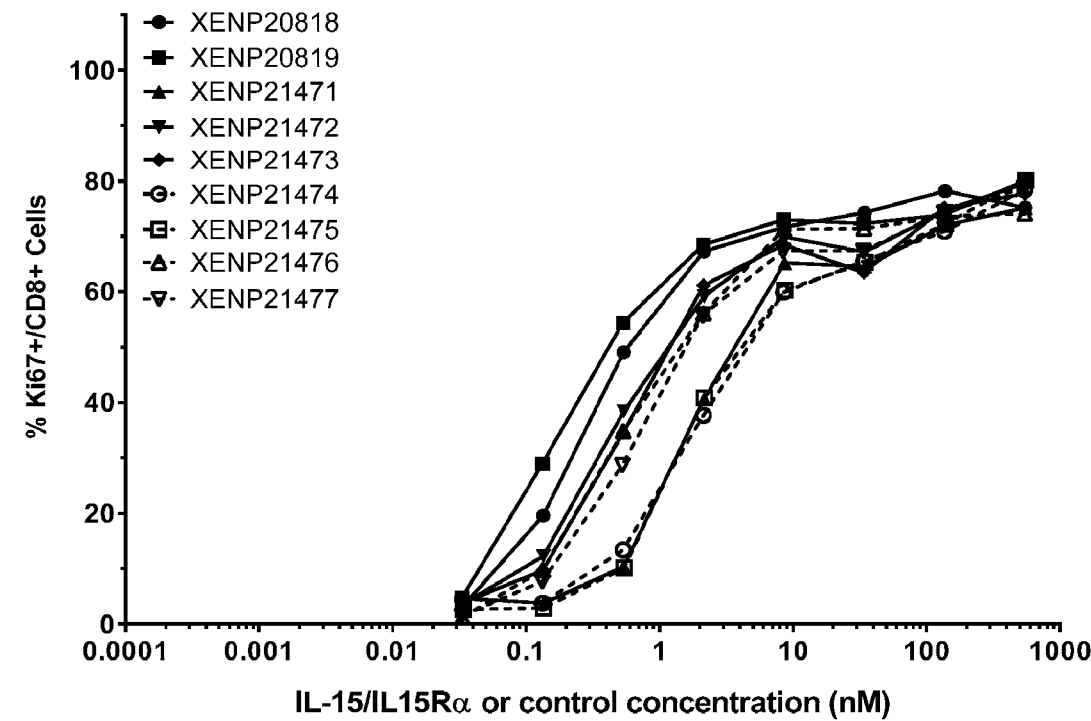


Figure 21A

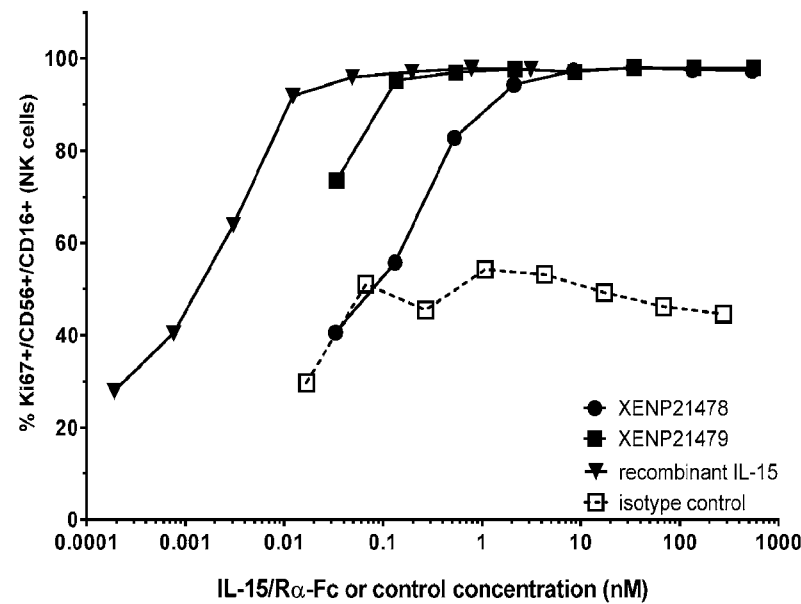


Figure 21B

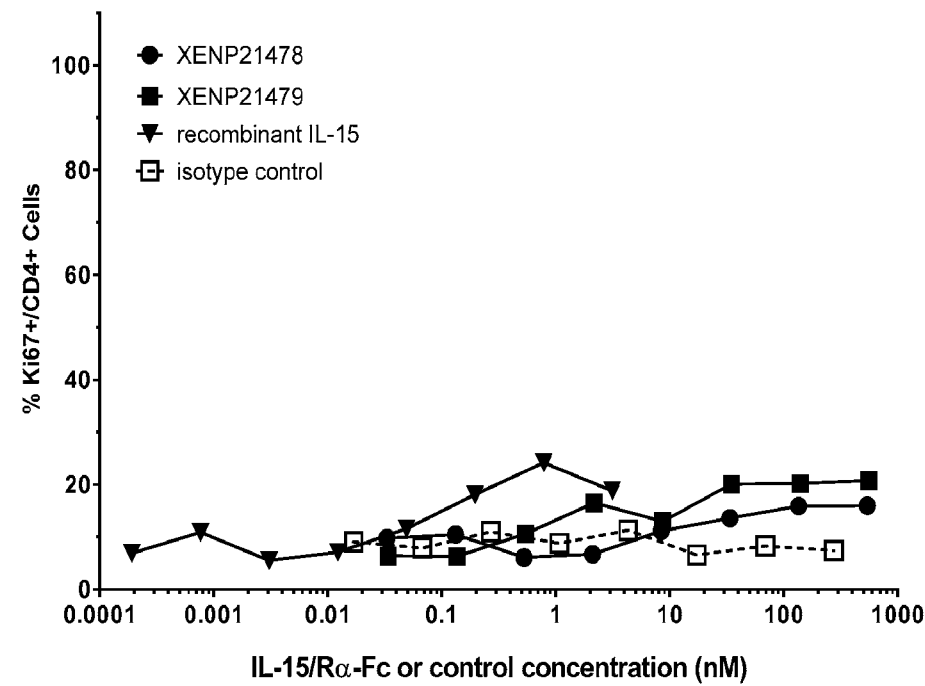


Figure 21C

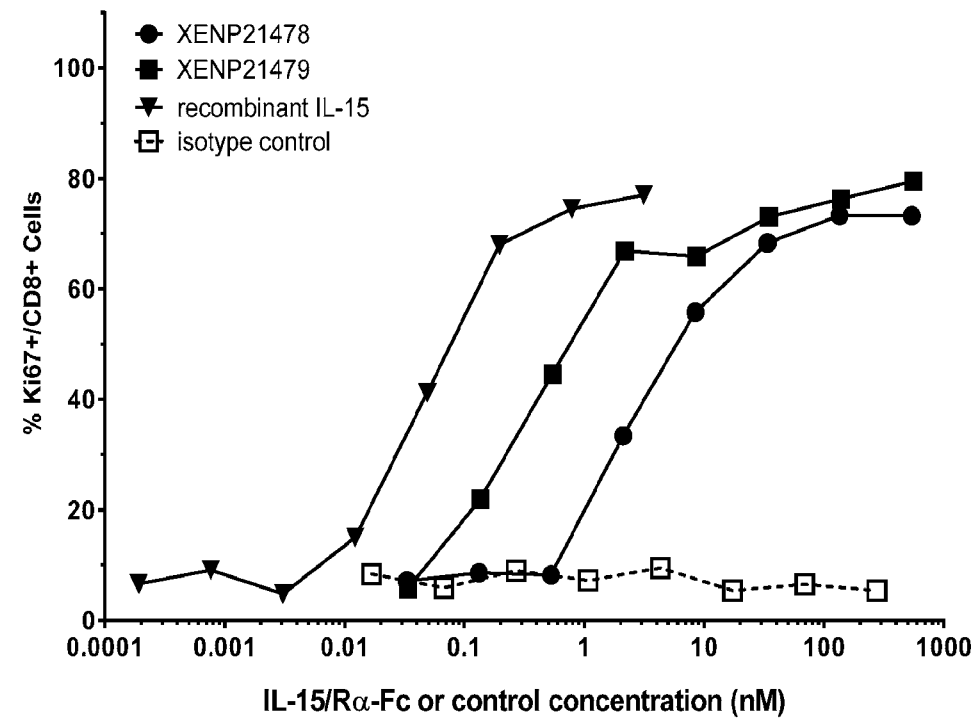


Figure 22

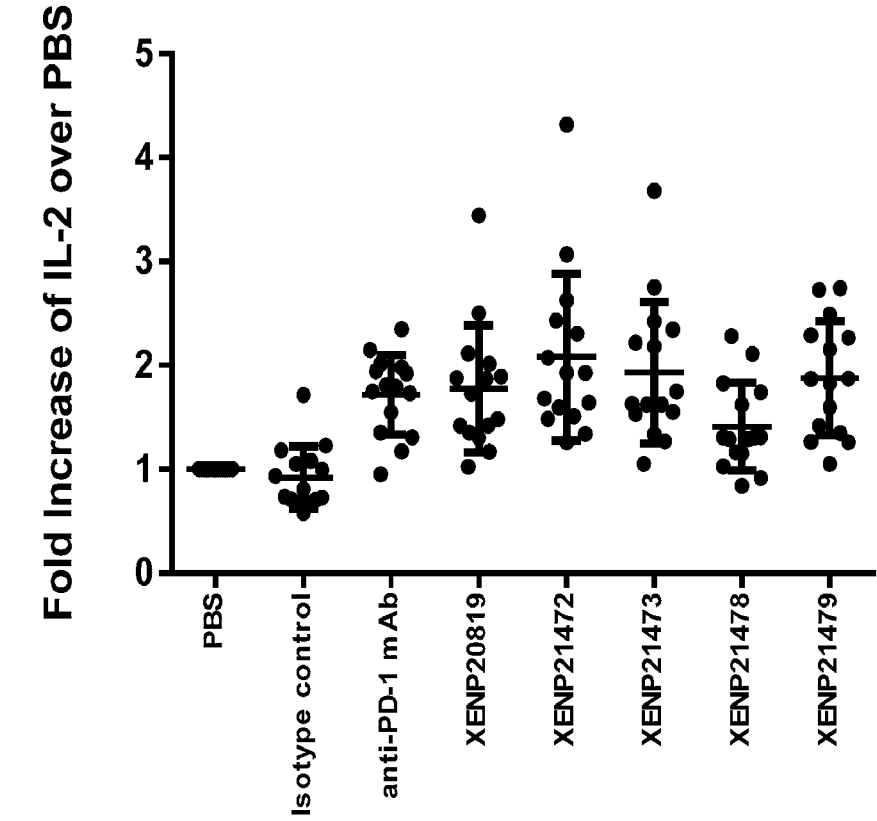


Figure 23

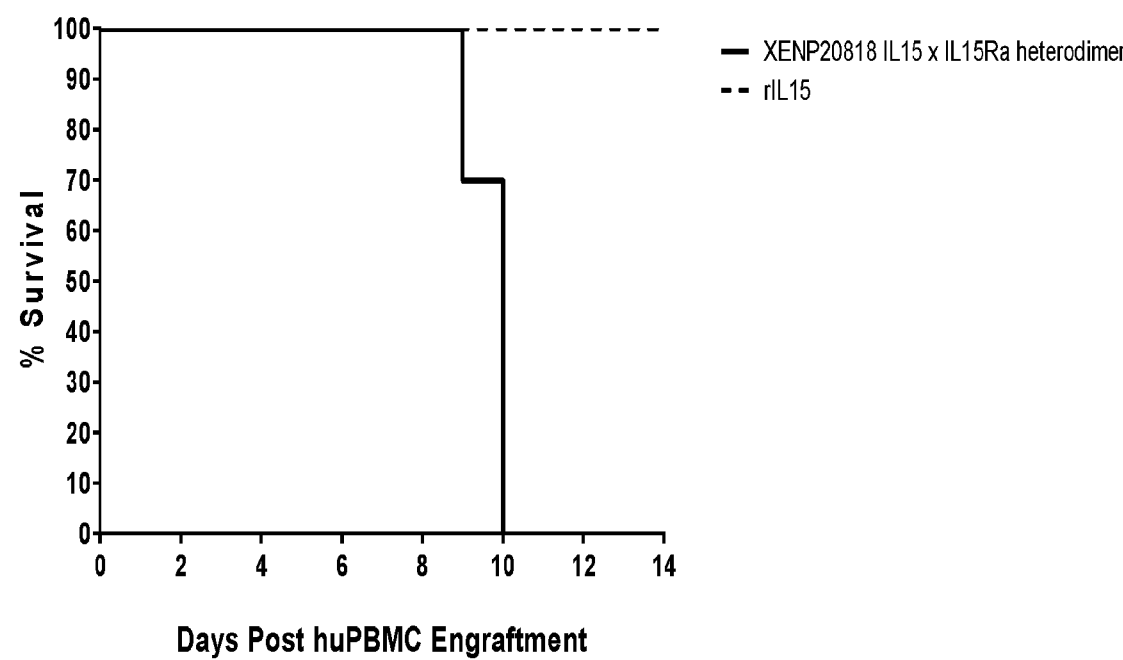


Figure 24

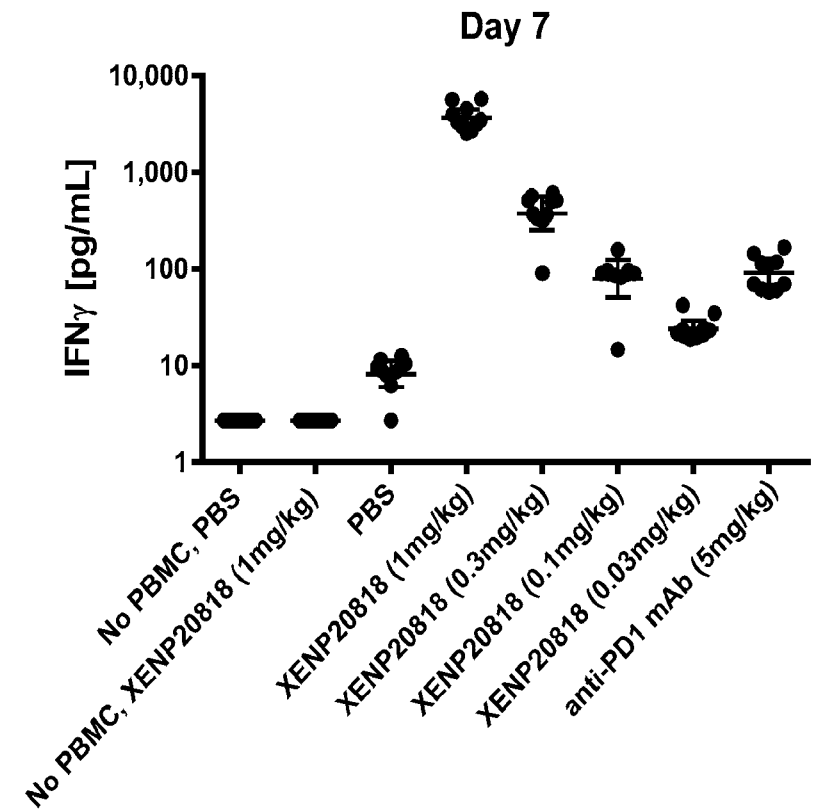


Figure 25A

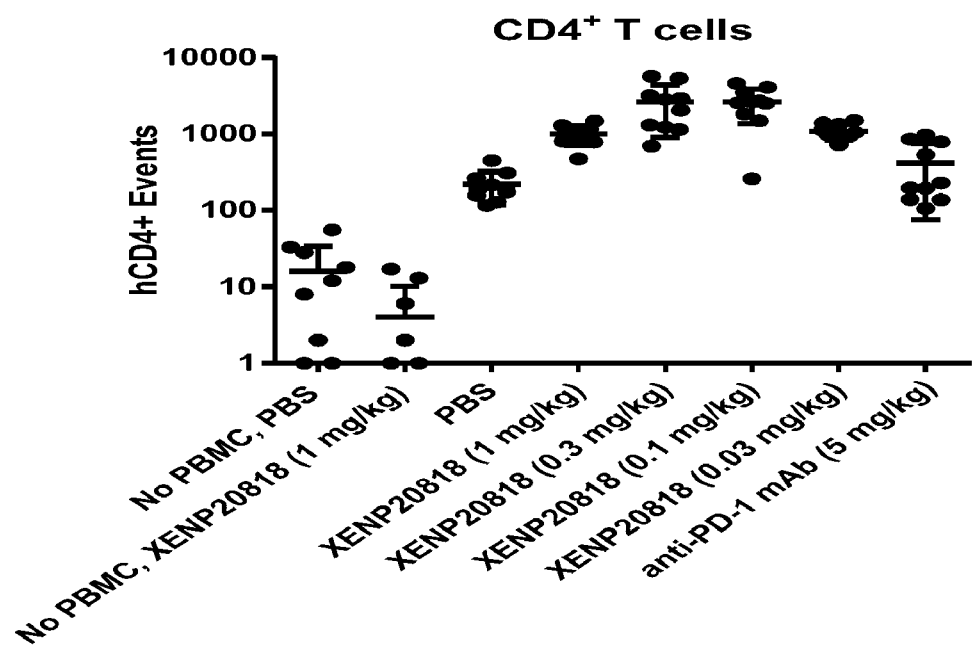


Figure 25B

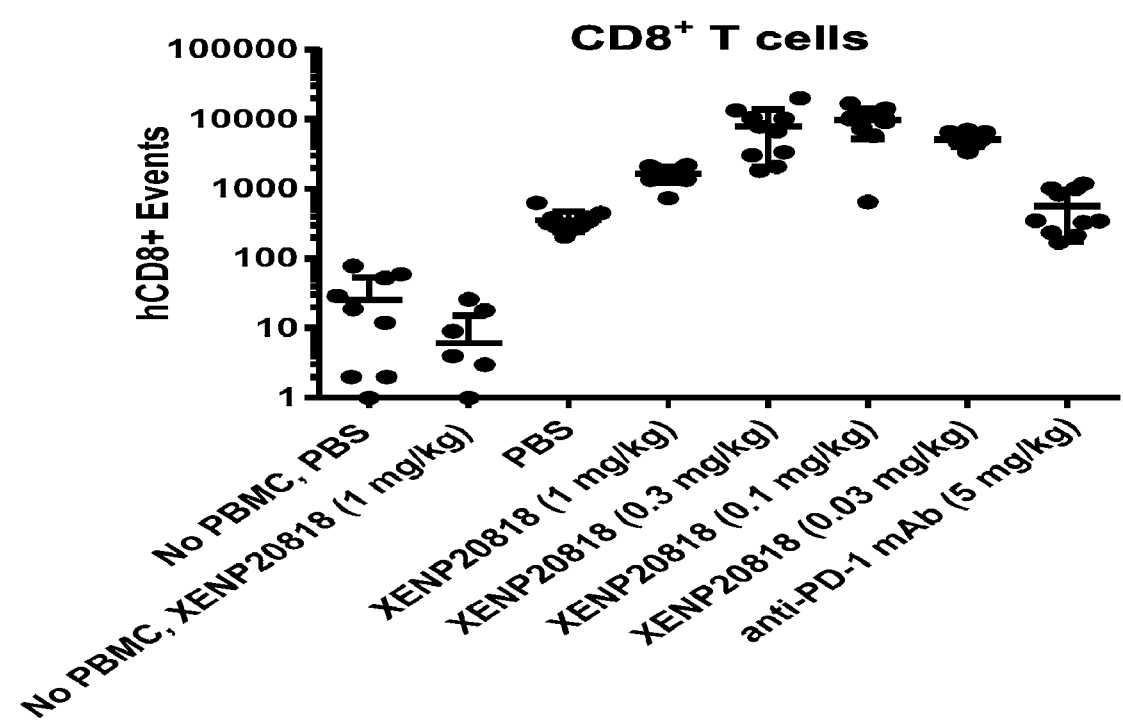


Figure 25C

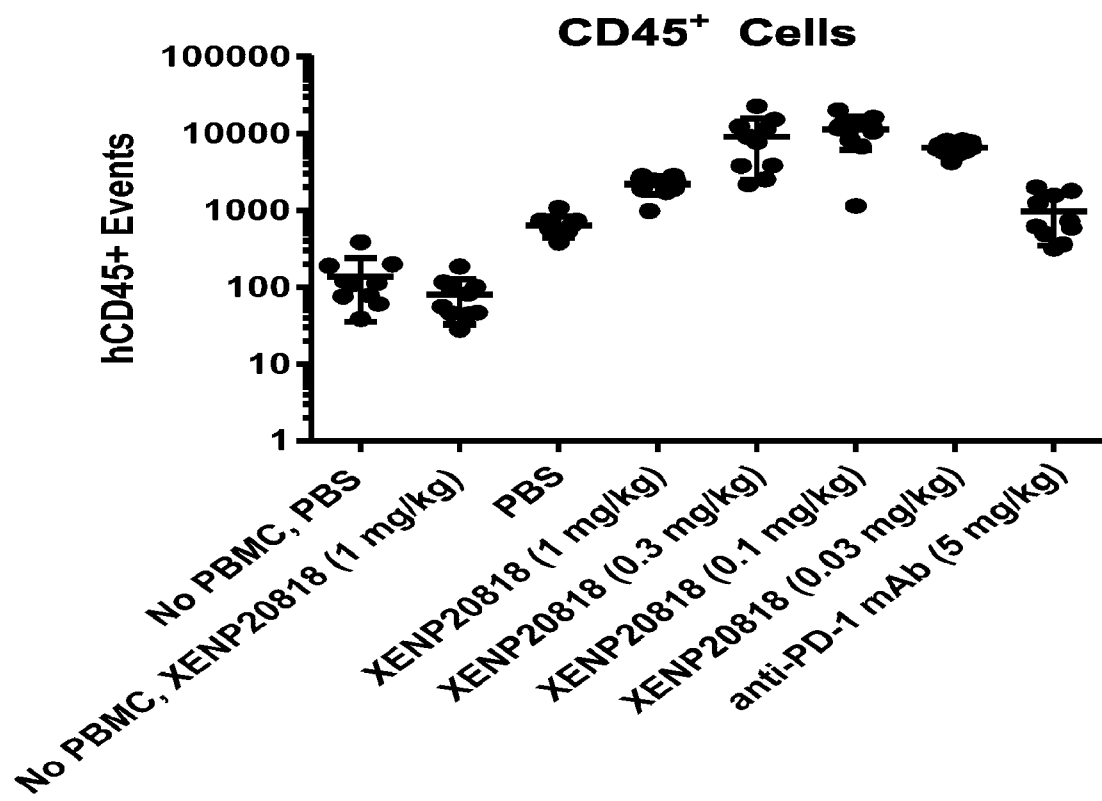


Figure 26

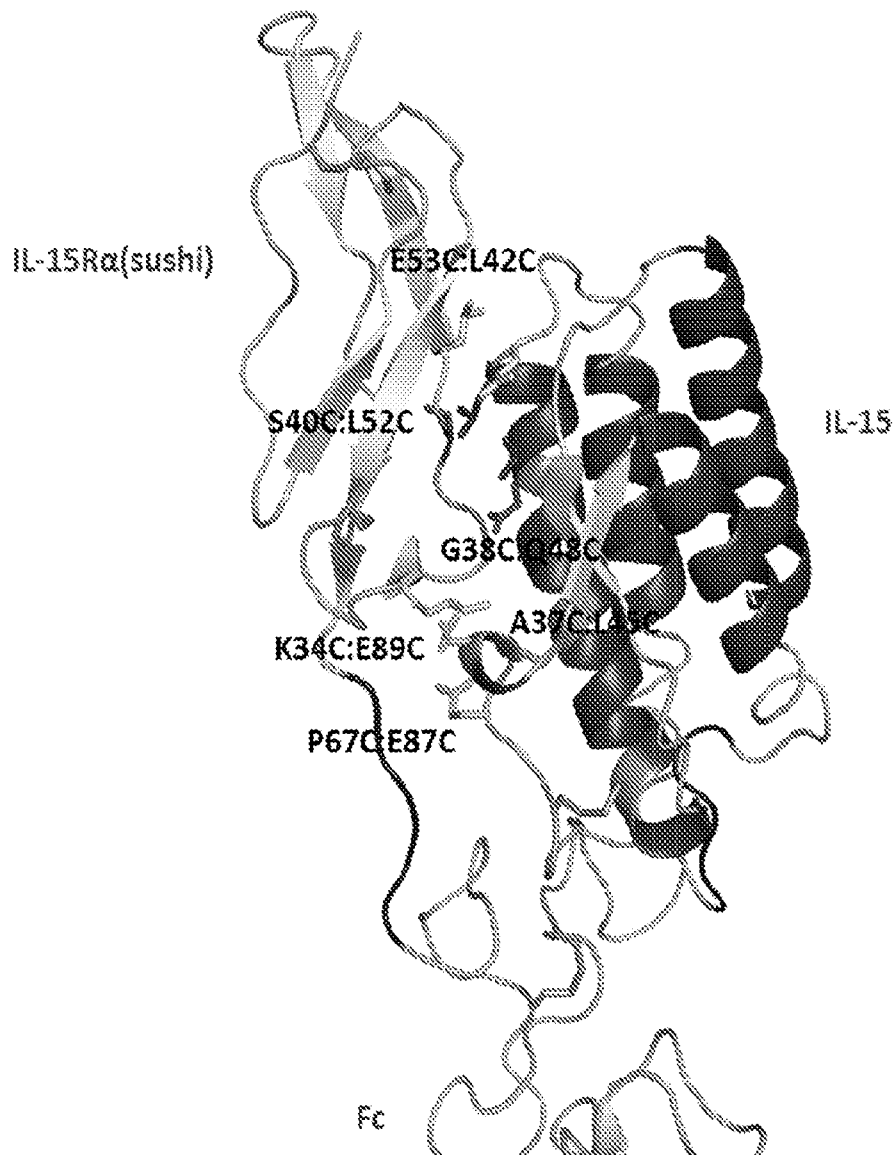


Figure 27

IL-15R α (sushi-D96) (SEQ ID NO: 102)

ITCPPPMSEHADIWKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITPSLKCIRD

IL-15R α (sushi-D96/P97) (SEQ ID NO: 103)

ITCPPPMSEHADIWKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITPSLKCIRDP

IL-15R α (sushi-D96/P97/A98) (SEQ ID NO: 104)

ITCPPPMSEHADIWKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITPSLKCIRDPA

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQCISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISCES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELCVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLCSGDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKSFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Figure 29

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDPC

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDCA

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTTPSLKCIR

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFCRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKACTSSLTECVLNKATNVAHWTTPSLKCIR

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSCTECVLNKATNVAHWTTPSLKCIR

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKC GTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 30A

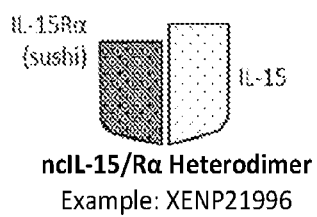


Figure 30B

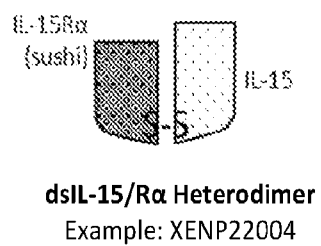


Figure 30C

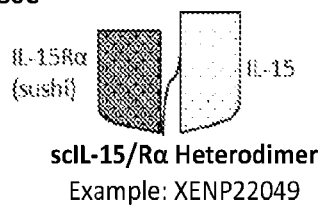


Figure 31

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

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLLQLQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 32

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD C

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD PC

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD CA

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

129)NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANN
SLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTTPSLKCIR

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKCGTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 33

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
SGGGSGGGSGGGSGGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLE
SGDASIHDTVENLIILANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Figure 34

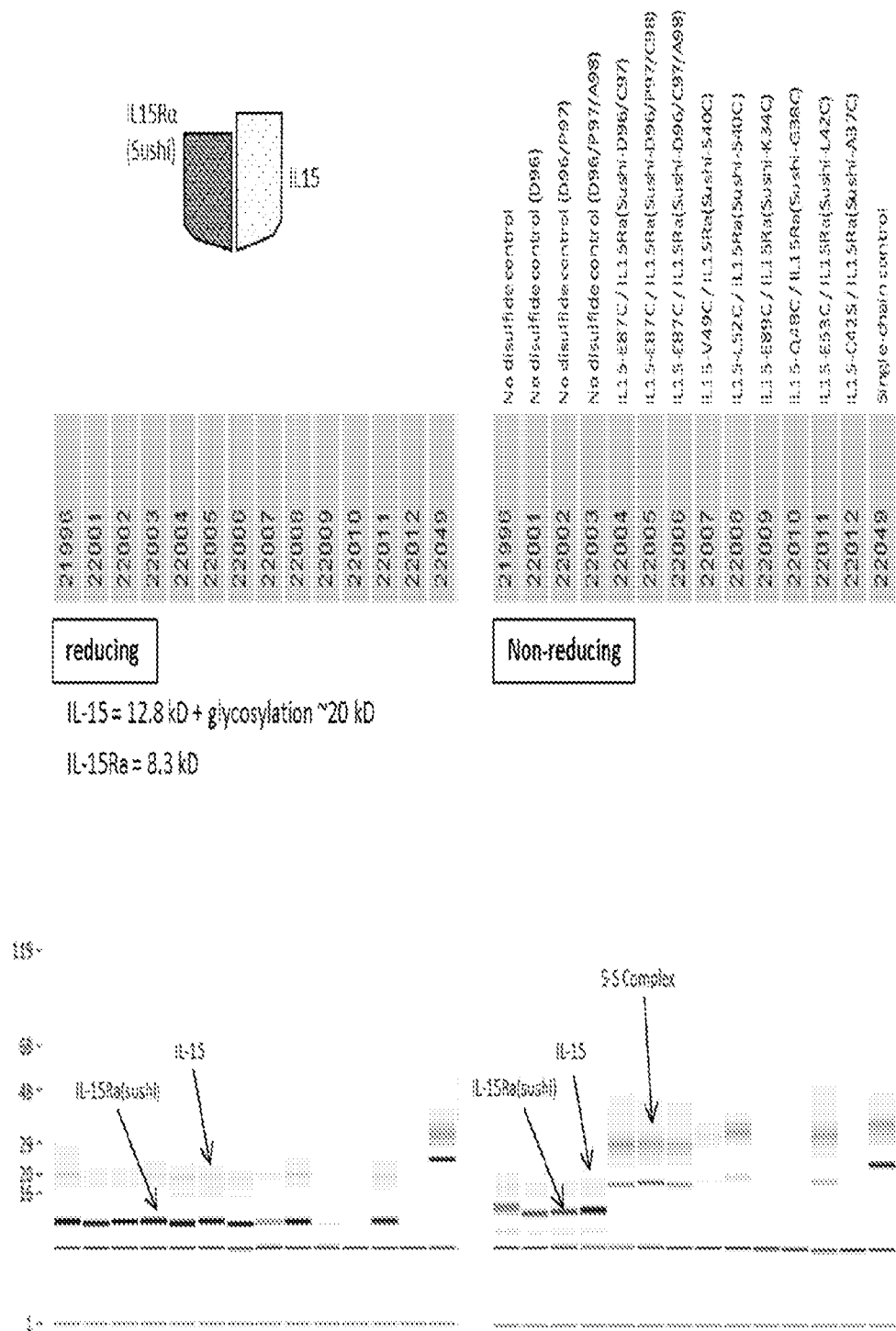


Figure 35

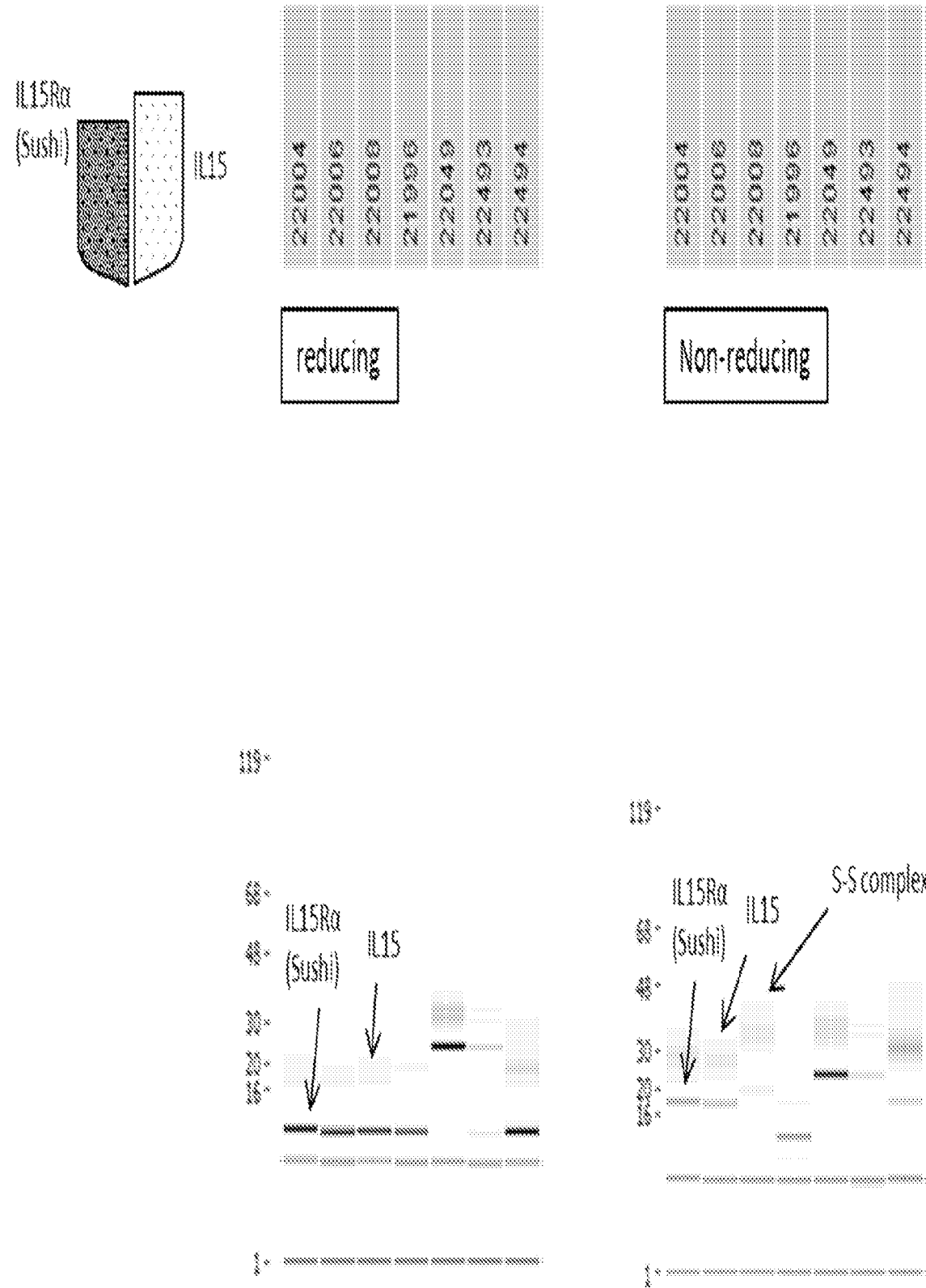


Figure 36

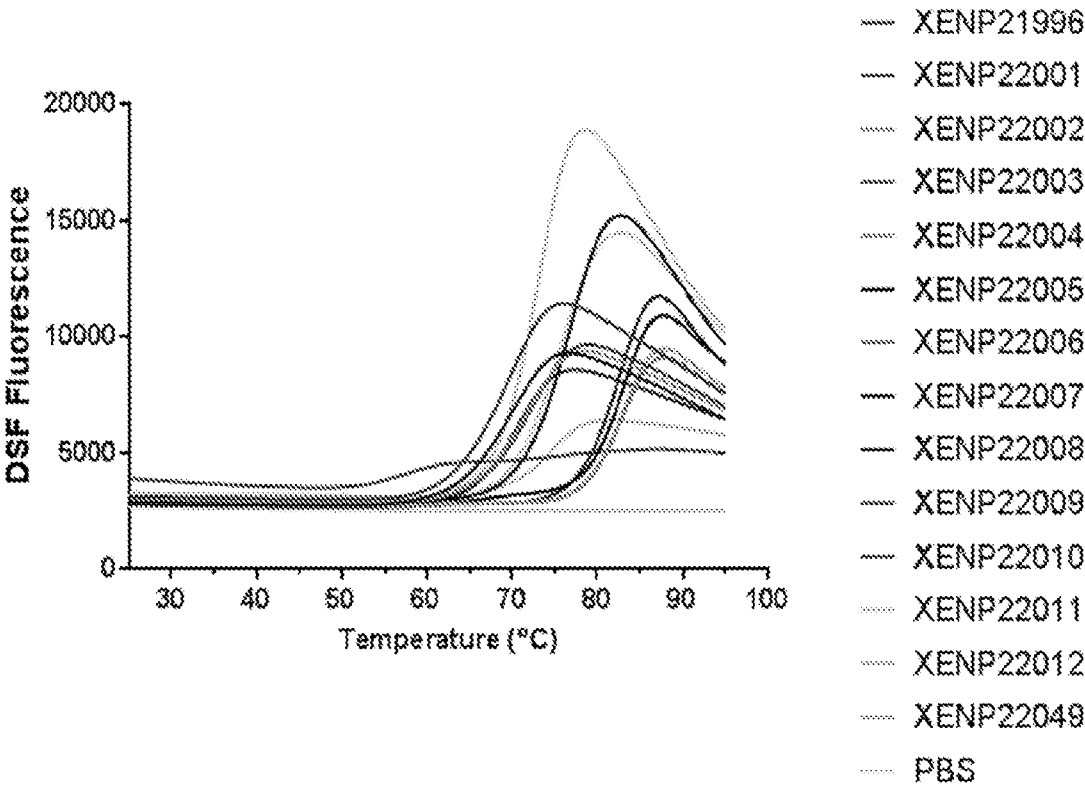


Figure 37

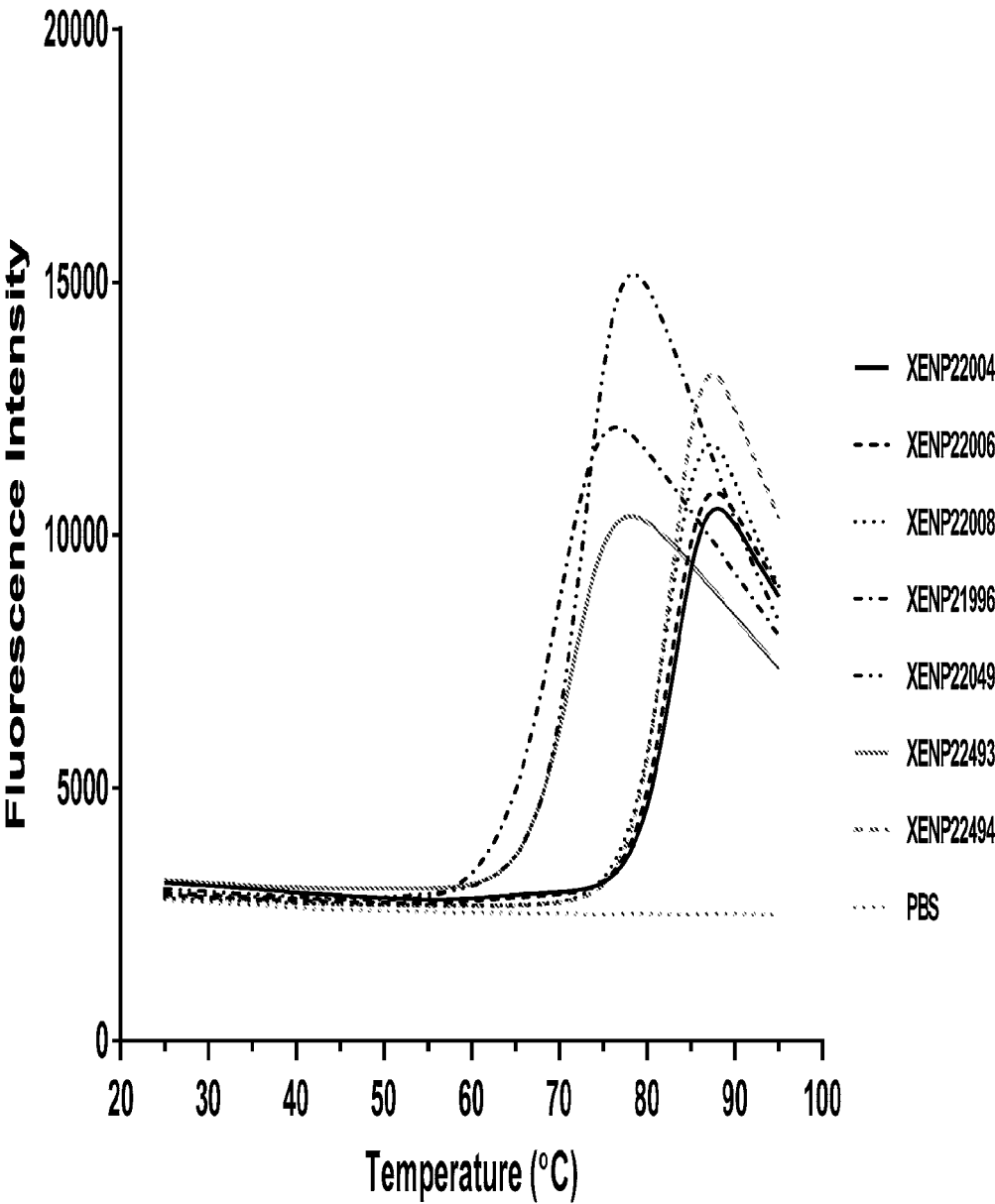


Figure 38

<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

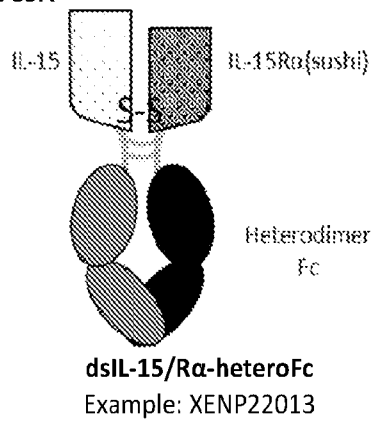


Figure 39B

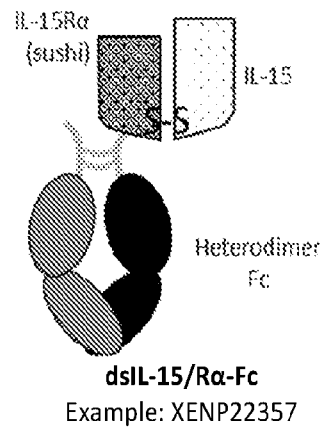


Figure 39C

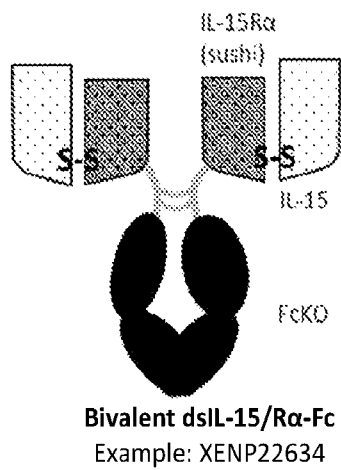


Figure 39D

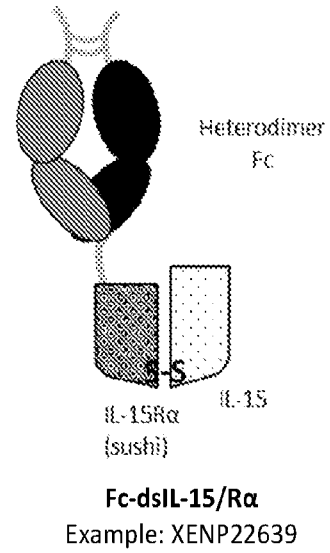


Figure 40A

>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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELEQVLSLESGDASIHDTVENLIIILANNLSNGNVTESGCKCCEE
LEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKF
NWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
TCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGVDFSCVMHEALHNHYTQKSLSLSPGK

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

ITCPPMSVEHADIWKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITPSLKCIRDG/GGGGS/EPKSSDKTHTCPPCPA
PPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCK
VSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDK
SRWQQGNVDFSCVMHEALHNHYTQKSLSLSPGK

>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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELEQVLSLESGDASIHDTVENLIIILANNLSNGNVTESGCKCCEE
LEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKF
NWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
TCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGVDFSCVMHEALHNHYTQKSLSLSPGK

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

ITCPPMSVEHADIWKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITPSLKCIRDPC/GGGGS/EPKSSDKTHTCPPCP
APPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCK
VSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDK
SRWQQGNVDFSCVMHEALHNHYTQKSLSLSPGK

>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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELEQVLSLESGDASIHDTVENLIIILANNLSNGNVTESGCKCCEE
LEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKF
NWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
TCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGVDFSCVMHEALHNHYTQKSLSLSPGK

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

ITCPPMSVEHADIWKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITPSLKCIRDCA/GGGGS/EPKSSDKTHTCPPCP
APPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCK
VSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDK
SRWQQGNVDFSCVMHEALHNHYTQKSLSLSPGK

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)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISCESGDASIHDVTENLIILANNLSNNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLEPPPKPDTLMISRTPEVTCVVDVKHEDPEVKF
NWYVDGVEVHNARKTPREEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
TCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGVDFSCVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSEVHADIWKSYSLSRERYICNSGFKRKAGTCSLTCVINKATNVAHWITPSLKCIR/GGGGS/EPKSSDKTHTCPPCPAPP
VAGPSVFLEPPPKPDTLMISRTPEVTCVVDVKHEDPEVKENWYVDGVEVHNARKTPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVS
NKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDK
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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVENLIILANNLSL
SNGNVTESGCKCCEELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGVDFSCVMHEALHNHYTQKSL
SLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDPC/GGGGS/
EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREOMTKNQVSLT
CLVKGFIYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVDFSCVMHEALHNHYTQKSL
SLSPGK

**>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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVENLIILANNLSL
SNGNVTESGCKCCEELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGVDFSCVMHEALHNHYTQKSL
SLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDCA/GGGGS/
EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREOMTKNQVSLT
CLVKGFIYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVDFSCVMHEALHNHYTQKSL
SLSPGK

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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISCESGDASIHDTVENLIILANNLSL
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVHLHQLDNLNGKEYCKKVSNAKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGDVFSCSMHEALHNHYTQKSLS
LSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWITPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQLDNLNGKEYCKKVSNAKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVVFSCSMHEALHNHYTQKSLSLS
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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVENLIILANNLSL
SSNGNVTESGCKCEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITPSLKCIRDCA/EPKSSDKTHTCPPCPAPPVAG
PSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVHLHQLDNLNGKEYCKKVSNA
LPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW
QQGNVVFSCSMHEALHNHYTQKSLSLSPGK

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)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDCEPKSSDK
THTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNS
TYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFY
PSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK
 (SEQ ID NOS 179-181)

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLES GDASIHDVTENLIILANNSLS
SNGNVTESGCKCCEEELEEKNIKEFLQSFVHIVQMFINTS

>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)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDCA/EPKSSD
KHTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYN
STYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGF
YPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLES GDASIHDVTENLIILANNSLS
SNGNVTESGCKCCEEELEEKNIKEFLQSFVHIVQMFINTS

>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)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISCES GDASIHDVTENLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

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
 REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGVDFSCVMHEALHNHYTQKSLSLSPGK/ GGGGSGGGGS/ITCPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWT
 TP SLK CIRDC

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

ERKSSDKTHTCPRCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFKWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
 CLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVDFSCVMHEALHNHYTQKSLSLSPGK

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
 SNGNVTESGCKCCEEELEEKNIKEFLQSFVHIVQMFINTS

>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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNVTESGCKCCEE
 LEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVL
 TVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPYPSDIAVEWESDGPENNYKTTTP
 VLDSDGSFFLYSKLTVDKSRWEEQGVDFSCVMHEALHNHYTQKSLSLSPGK

Figure 44

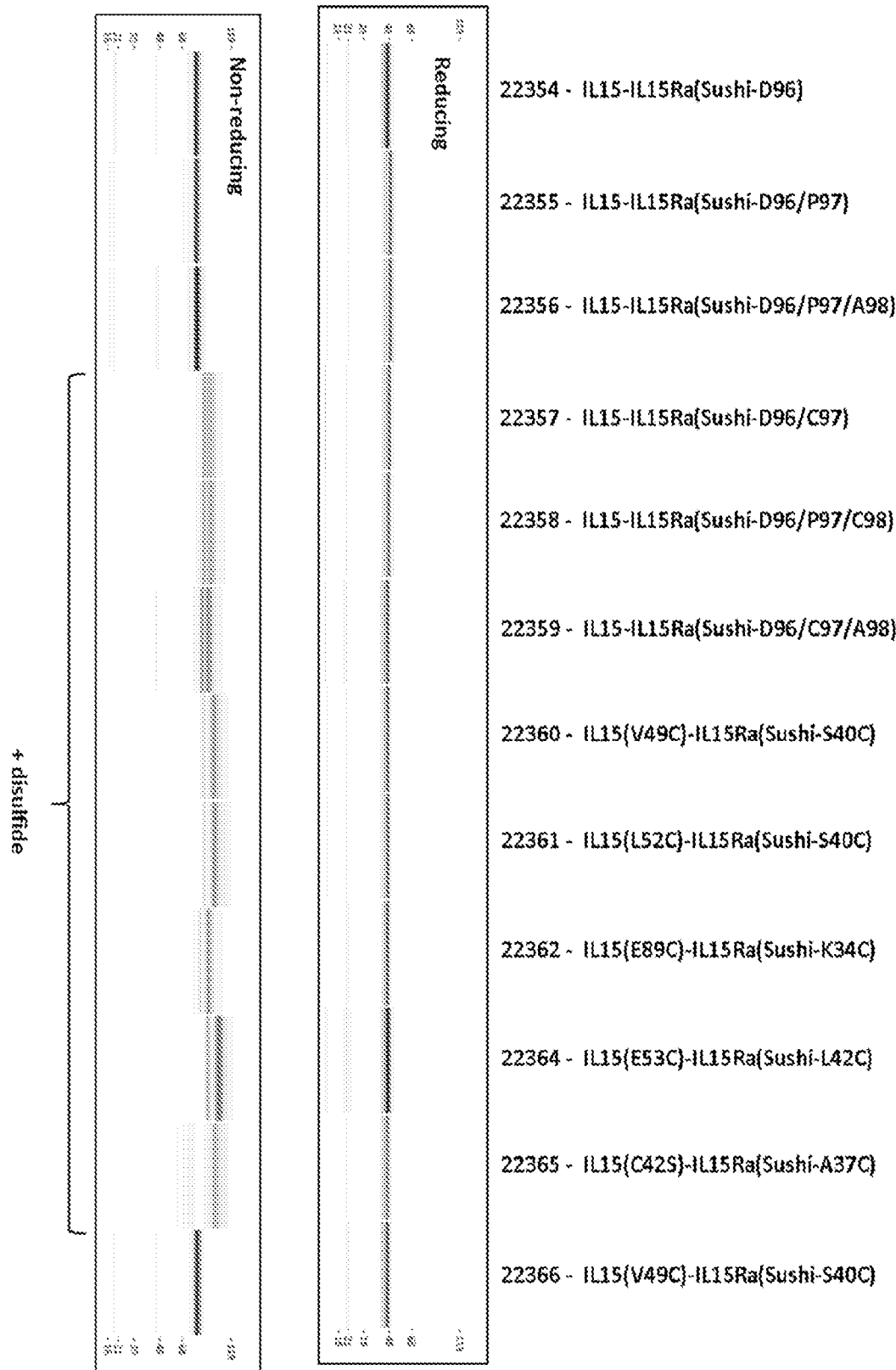


Figure 45A

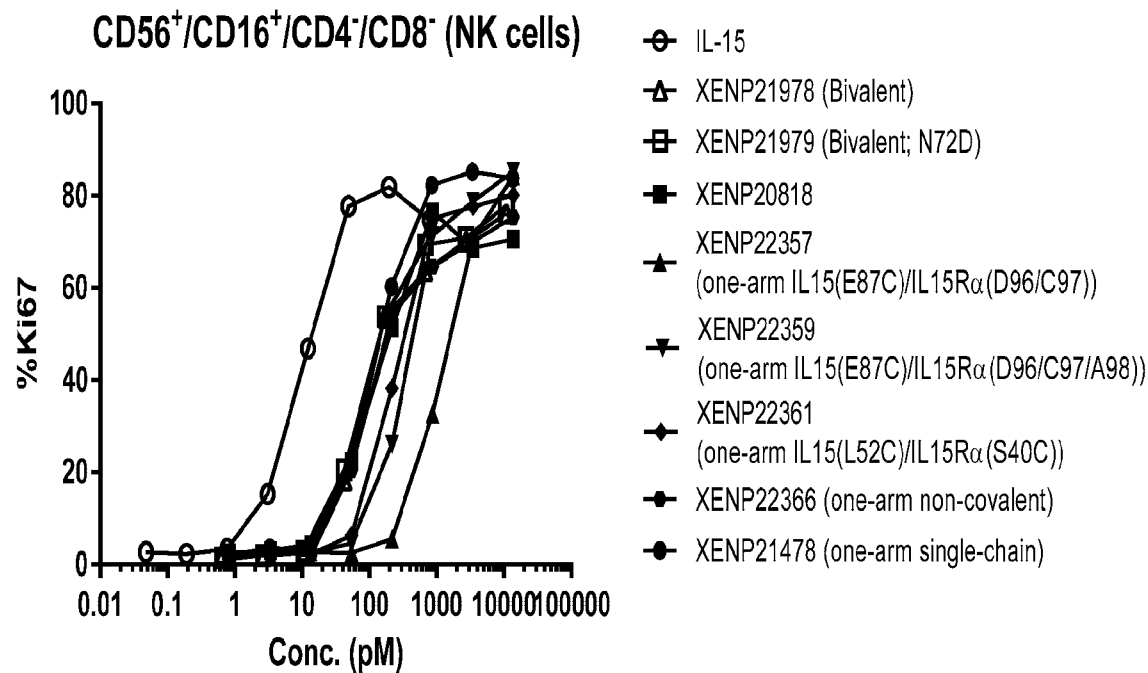


Figure 45B

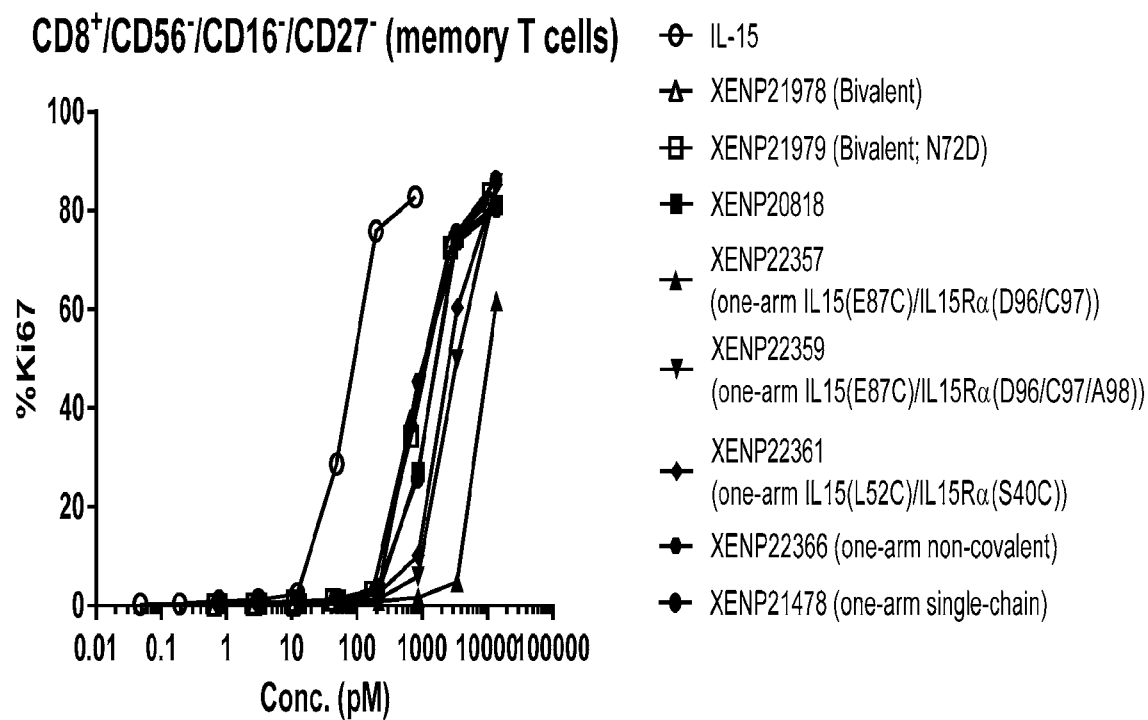


Figure 45C

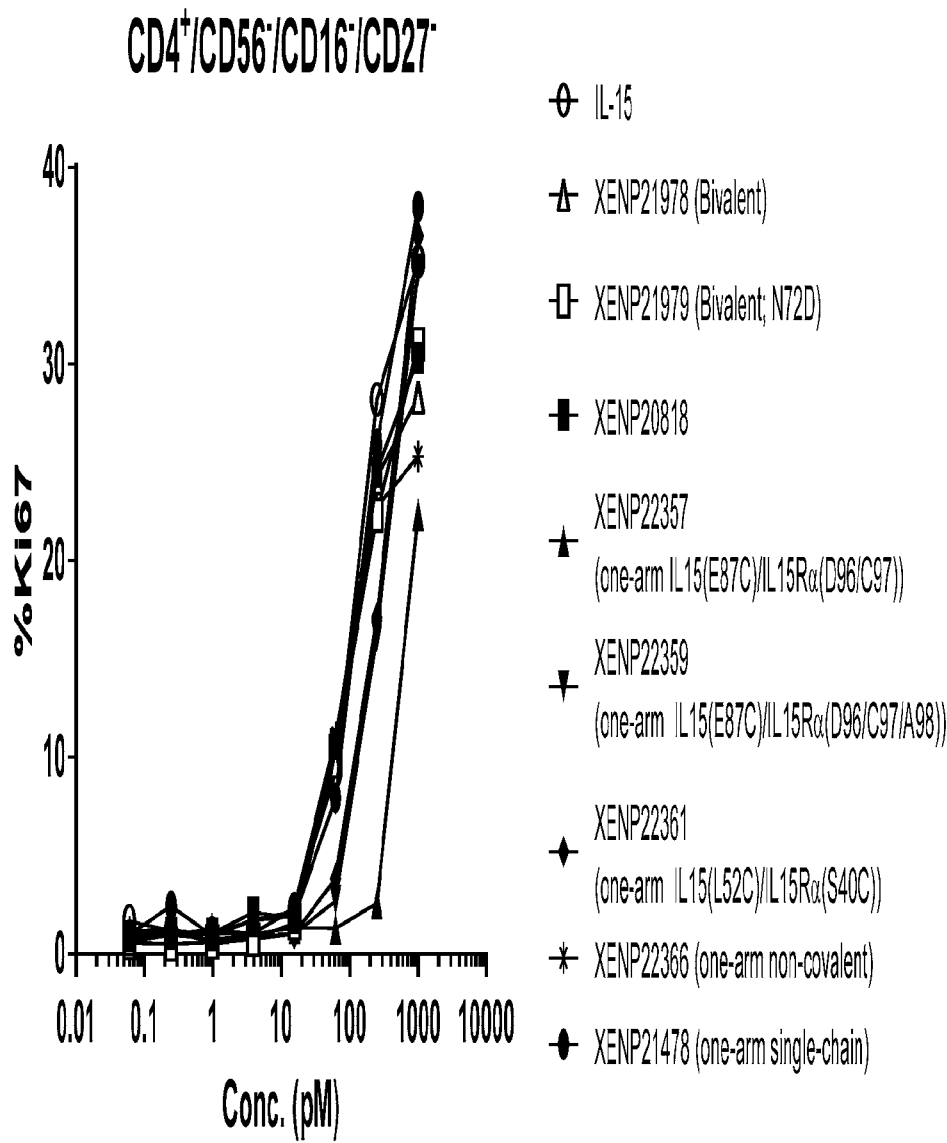


Figure 46

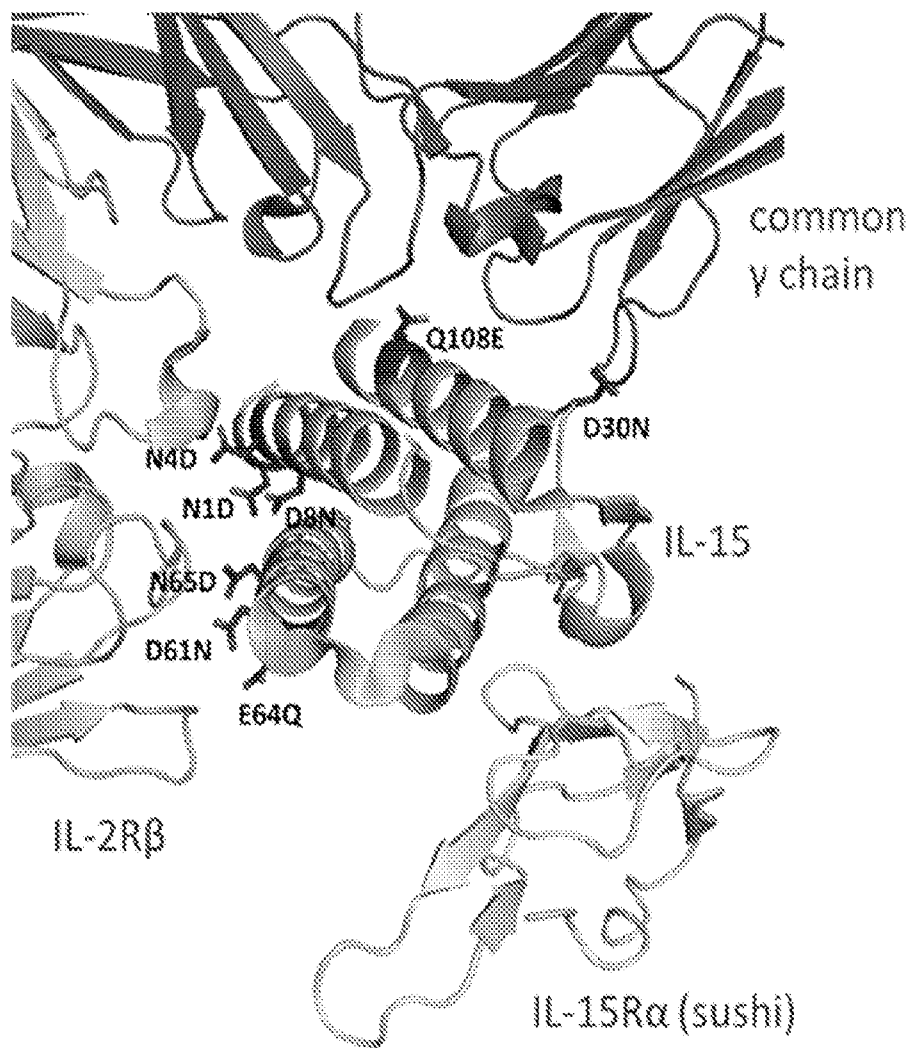


Figure 47A**N1D (SEQ ID NO: 198)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

N4D (SEQ ID NO: 199)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

D8N (SEQ ID NO: 200)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

D30N (SEQ ID NO: 201)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

D61N (SEQ ID NO: 202)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

E64Q (SEQ ID NO: 203)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

N65D (SEQ ID NO: 204)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

Q108E (SEQ ID NO: 205)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

N1D/D61N (SEQ ID NO: 206)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

N1D/E64Q (SEQ ID NO: 207)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

N4D/D61N (SEQ ID NO: 208)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

N4D/E64Q (SEQ ID NO: 209)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

Figure 47B

D8N/D61N (SEQ ID NO: 210)

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVENLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

D8N/E64Q (SEQ ID NO: 211)

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

D61N/E64Q (SEQ ID NO: 212)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQNLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

E64Q/Q108E (SEQ ID NO: 213)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVEMFINTS

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

DWVDVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQDLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

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

DWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQNLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVEMFINTS

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

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQNLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVEMFINTS

N1D/N65D (SEQ ID NO: 218)

DWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

N1D/Q108E (SEQ ID NO: 219)

DWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVEMFINTS

N4D/N65D (SEQ ID NO: 220)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

D30N/N65D (SEQ ID NO: 221)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

D30N/Q108E (SEQ ID NO: 222)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVEMFINTS

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES~~GD~~ASIHDTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

E64Q/N65D (SEQ ID NO: 224)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES~~GD~~ASIHDTVQDLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

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

DWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES~~GD~~ASIHDTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

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

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCKVTAMKCFLELQVISLES~~GD~~ASIHDTVQDLIIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

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

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES~~GD~~ASIHNTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

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)

NWVNVI~~SDLKKIEDLIQSMHIDATLYTESDVHP~~SCKVTAMKCF~~LLELQVISLES~~GDASI~~HDTVEDLIILANN~~SL
SNGNV~~TESGCKECEELEEKNIKEFLQSFVHIVQMFINTS~~/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTIKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDSGGSFFLYSKLTVDKSRWEQGDVFSCSVMEALHNHYTQKSLSLSPGK

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)

ITCPPPM~~SVEHAD~~IWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGGSFFLYSKLTVDKSRWQQGNVSCSVMEALHNHYTQKSLSLSPGK

>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)

NWVNVI~~SDLKKIEDLIQSMHIDATLYTESDVHP~~SCKVTAMKCF~~LLELQVISLES~~GDASI~~HDTVENLIILANN~~SL
SNGNV~~TESGCKECEELEEKNIKEFLQSFVHIVEMFINTS~~/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTIKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDSGGSFFLYSKLTVDKSRWEQGDVFSCSVMEALHNHYTQKSLSLSPGK

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)

ITCPPPM~~SVEHAD~~IWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGGSFFLYSKLTVDKSRWQQGNVSCSVMEALHNHYTQKSLSLSPGK

>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)

DWVNVI~~SDLKKIEDLIQSMHIDATLYTESDVHP~~SCKVTAMKCF~~LLELQVISLES~~GDASI~~HDTVEDLIILANN~~SL
SNGNV~~TESGCKECEELEEKNIKEFLQSFVHIVQMFINTS~~/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTIKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDSGGSFFLYSKLTVDKSRWEQGDVFSCSVMEALHNHYTQKSLSLSPGK

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

ITCPPPM~~SVEHAD~~IWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGGSFFLYSKLTVDKSRWQQGNVSCSVMEALHNHYTQKSLSLSPGK

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)
 NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
 PVLDS DGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908) (SEQ ID
 NOS 249-251)
 ITCPPPMSEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

>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)
 NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
 PVLDS DGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS
 255-257)
 ITCPPPMSEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPKSSDKTHTCP
 PCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV
 SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIA
 VEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

>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)
 NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTPVLDS
 DGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 261-263)
 ITCPPPMSEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

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)
 NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDS
 DGSFFLYSKLTVDKSRWEEQGDVFSQVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (16481) (SEQ ID NOS 267-269)
 ITCPPPMSVEHADIWVKSYSLYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLSKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSPGK

>XENP024045 human IL15 D30N/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_D30N/E64Q/N65D_(GGGGS)1_Fc(216)_IgG1_pl(-)
) Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 270-272)
 NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCVKTAMKCFLELQVISLES GDASIHDTVQDLIILANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 VLDS DGSFFLYSKLTVDKSRWEEQGDVFSQVMHEALHNHYTQKSLSLSPGK

Chain 2 – human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 273-275)
 ITCPPPMSVEHADIWVKSYSLYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLSKCIR/ GGGGS/EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
 EQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSL
 SPGK

>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)
 DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVEDLIILANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDS
 DGSFFLYSKLTVDKSRWEEQGDVFSQVMHEALHNHYTQKSLSLSPGK

Chain 2 – human_IL15Ra(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 279-281)
 ITCPPPMSVEHADIWVKSYSLYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLSKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSPGK

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)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES
SGDASIHDTVEDLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTL
MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTPVLDS
DSGFFLYSKLTVDKSRWEQGDVFS
CSVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI
SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDS
DSGFFLYSKLTVDKSRWQGNVFS
CSVMHEALHNHYTQKSLSLSPGK

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)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
SGGGGSGGGGSGGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLES GDAS
IHDTVENLIIILANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/EPKSSDKTHTCPPCPAPP
VAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESD
GQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWEEQGDVFSCVMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLS
LSPGK

>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)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
SGGGGSGGGGSGGGGS/NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLES GDAS
IHDTVEDLIIILANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPP
VAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESD
GQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWEEQGDVFSCVMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLS
LSPGK

Figure 49B

>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 298-301)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
SGGGSGGGGSGGGGSGGGGSGGGG/NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVLSLE
SGDASIHDITVENLIILANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS/EPKSSDKTHTCPP
CPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVS
VLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAV
EWESDQGPPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFIYPSDIAVEWESNGQPPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLS
SLSPGK

>XENP024476 human IL15Ra(sushi) (GGGGS)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)_(GGGGS)6-human_IL15(single-chain;N4D/N65D)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 303-306)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
SGGGSGGGGSGGGGSGGGGSGGGG/NWVDVI SDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVLSLE
SGDASIHDITVEDLIILANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPP
CPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVS
VLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAV
EWESDQGPPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFIYPSDIAVEWESNGQPPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLS
SLSPGK

>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 308-311)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
SGGGSGGGGSGGGGSGGGGSGGGG/NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQ
VISLES GDASIHDITVENLIILANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS/EPKSSDKT
HTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNST
YRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
SDIAVEWESDQGPPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFIYPSDIAVEWESNGQPPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLS
SLSPGK

Chain 2 – empty_ Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 322)
 EPKSSDKTHTCPPCAPPVAGPSVFLFPPPKPDKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVHLQDWLNGKEYCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREQMTKNQVKLK
 CLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSL
 SLSPGK

Figure 50A

>XENP024349 IL15 Q108E (non-covalent)-human IL15Rα(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_IL15Rα(Sushi)_ Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 323-325)
 ITCPPPMSEVHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
 DIAVEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

Chain 2 – empty- Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 326)
 EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CLVKGFIYPSDIAVEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLS
 LSPGK

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

>XENP024890 IL15 N4D/N65D (non-covalent)-human IL15Rα(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)
 ITCPPPMSEVHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
 DIAVEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 331-333)
 ITCPPPMSEVHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
 DIAVEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

Chain 3 – empty_Fc(216)_ IgG1_PVA_/S267K/S364K/E357Q (SEQ ID NO: 334)
 EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CLVKGFIYPSDIAVEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLS
 LSPGK

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)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCVTAMKCFLELQVISLES GDASIHDTVQDLIILANNLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREOMTKNQVSLT
CLVKGFIYPSDIAVEWESNGQDENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLS
SLSPGK

Figure 51

>XENP022801 - human IL15 N65D(non-covalent)-human IL15R α (Sushi)**Chain 1 - human_IL15_N65D(non-covalent) (17672) (SEQ ID NO: 340)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES GDASIHDTVEDLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15R α (Sushi) (17033) (SEQ ID NO: 341)

ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022802 - human IL15 Q108E(non-covalent)-human IL15R α (Sushi)**Chain 1 - human_IL15_Q108E(non-covalent) (17673) (SEQ ID NO: 342)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS

Chain 2 - human_IL15R α (Sushi) (17033) (SEQ ID NO: 343)

ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

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)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLEQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVEMFINTS

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)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVFSFSVMHEALHNHYTQKSLSLSPGK

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

NWNVNISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLS
SNGNVTESGCKCEEELEEKNIKEFLQS FVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD/EPKSSDK
THTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFP
PSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSFSVMHEALHNHYTQKSLSLSPGK

>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)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVFSFSVMHEALHNHYTQKSLSLSPGK

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

NWNVNISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISCES GDASIHDTVEDLIILANNSLS
SNGNVTESGCKCEEELEEKNIKEFLQS FVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFP
DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSFSVMHEALHNHYTQKSLSLSPGK

Figure 54A

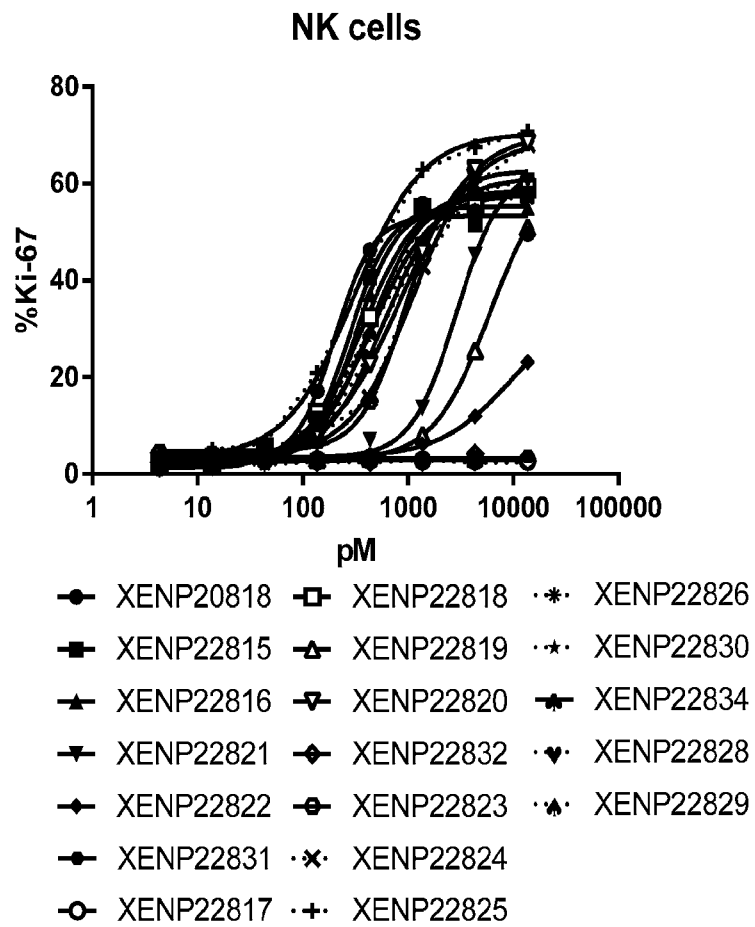


Figure 54B

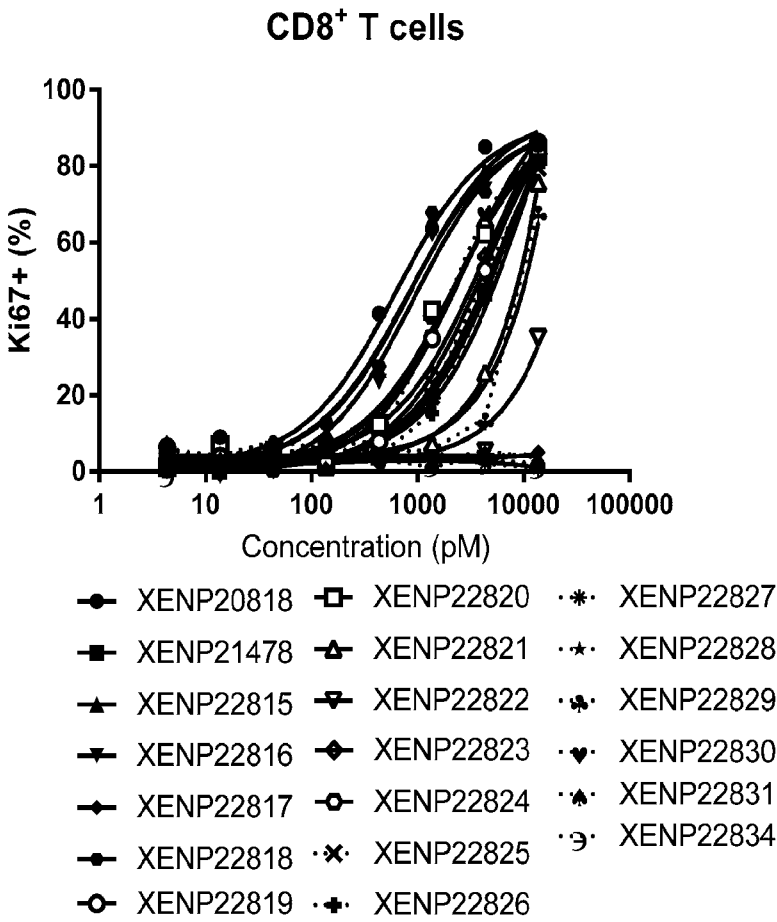


Figure 54C

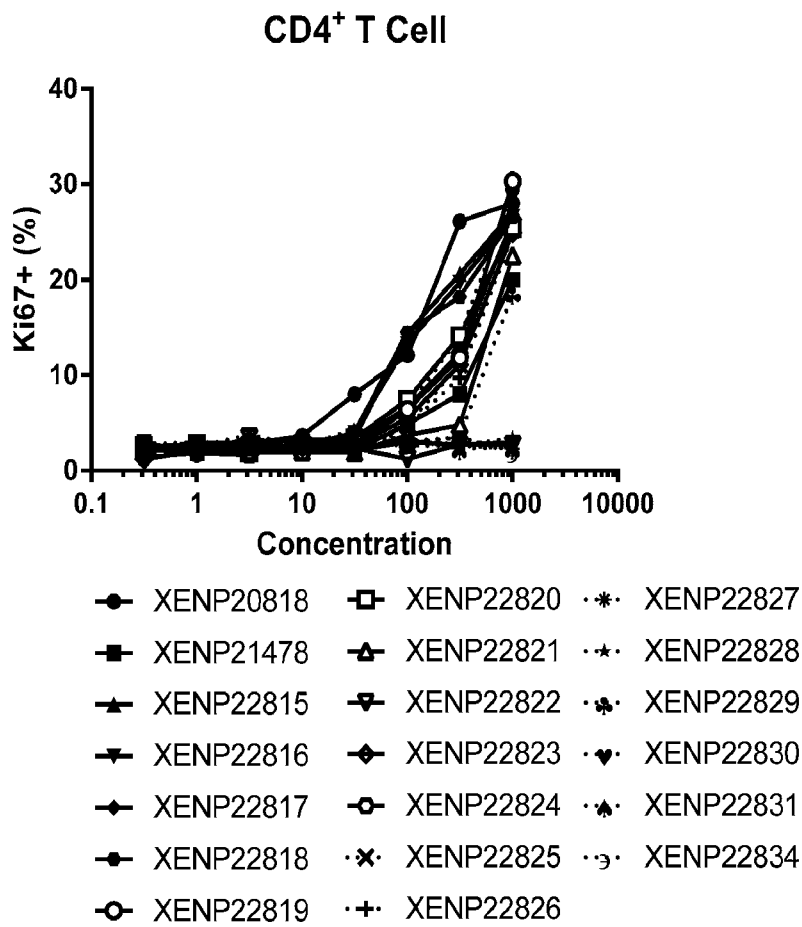


Figure 55

<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

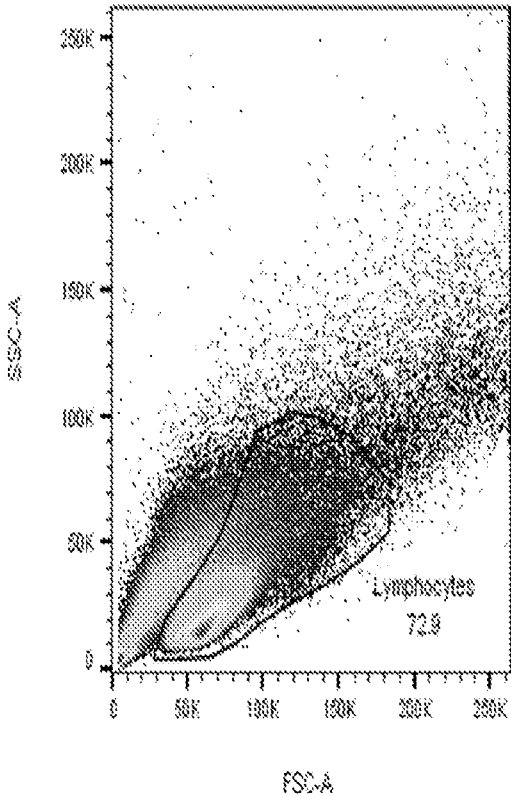


Figure 56B

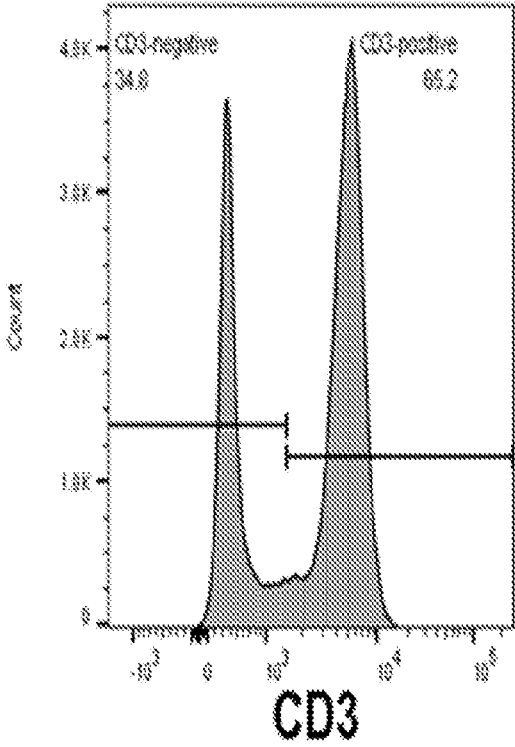


Figure 56C

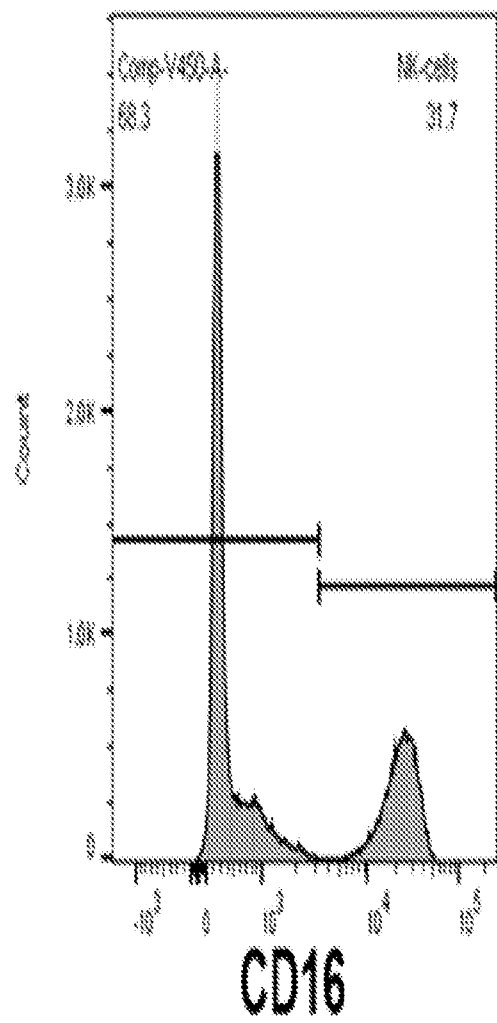


Figure 57A

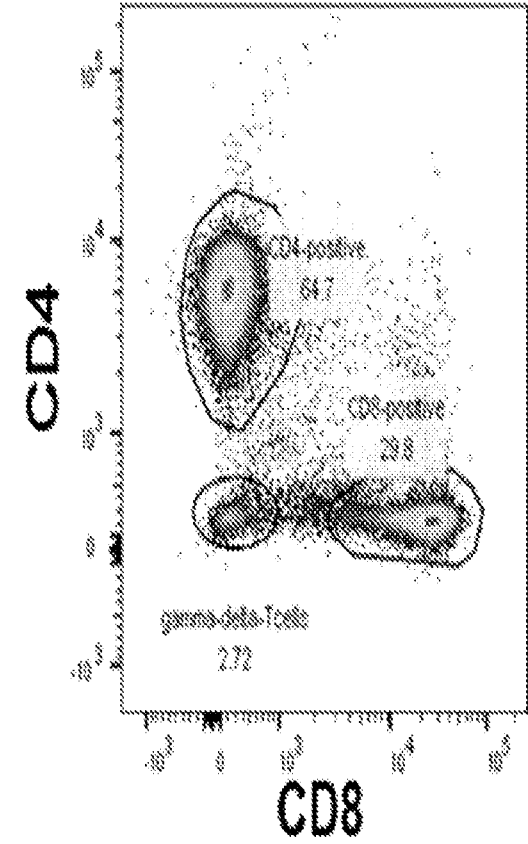


Figure 57B

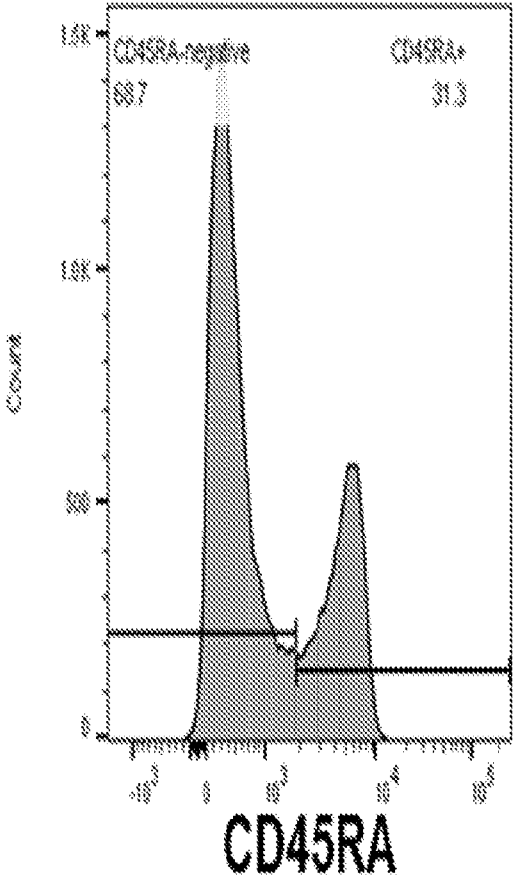


Figure 57C

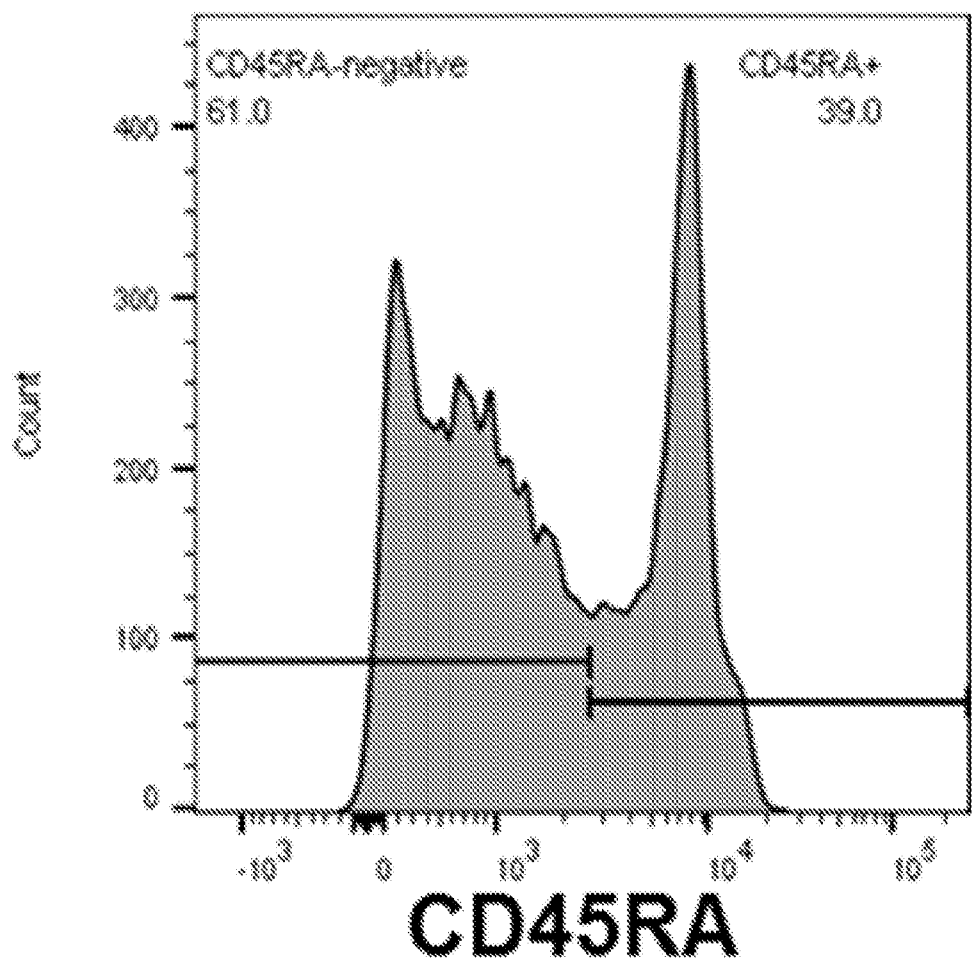


Figure 58A

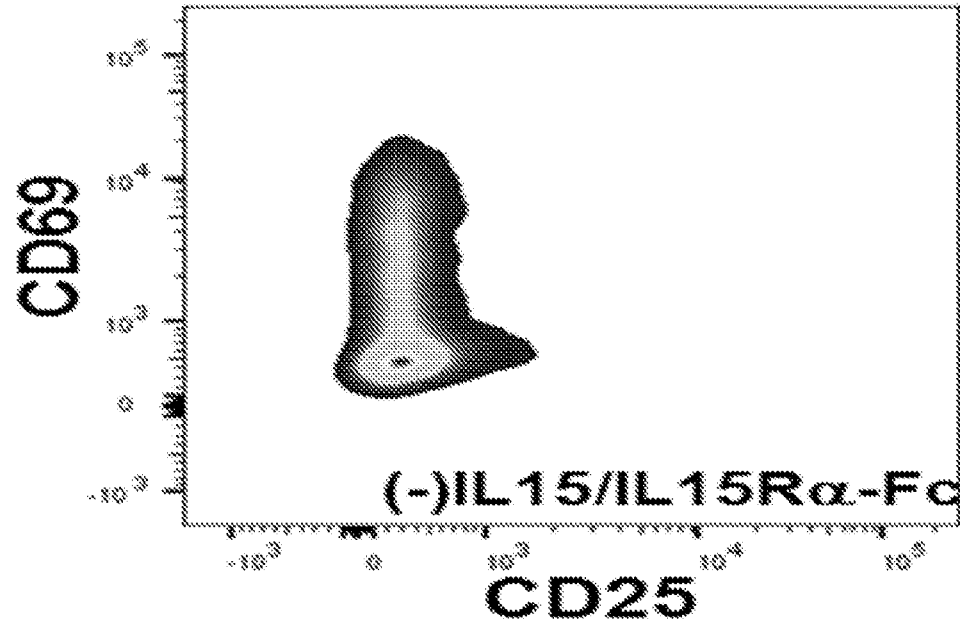


Figure 58B

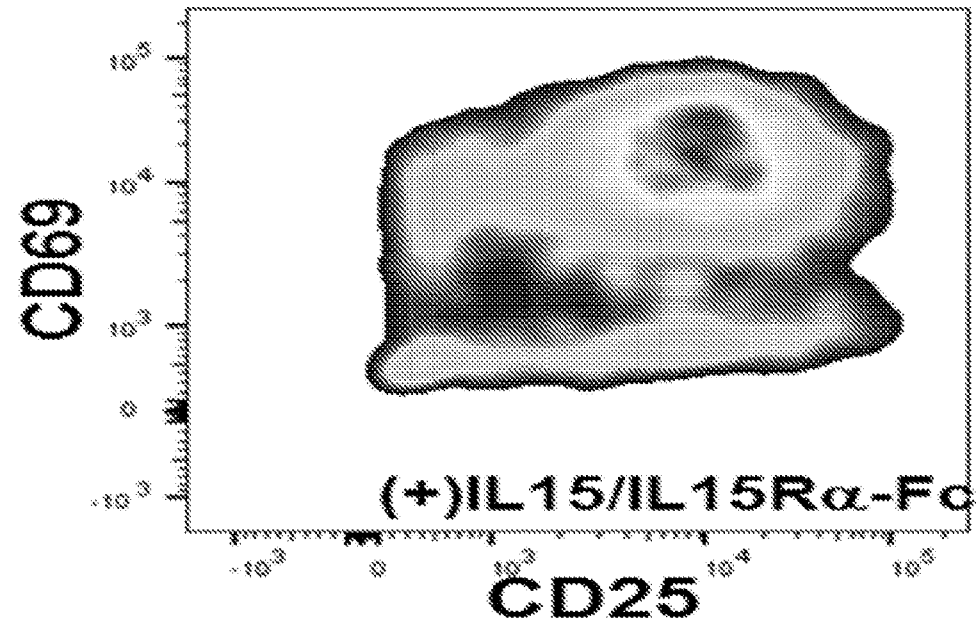


Figure 59A

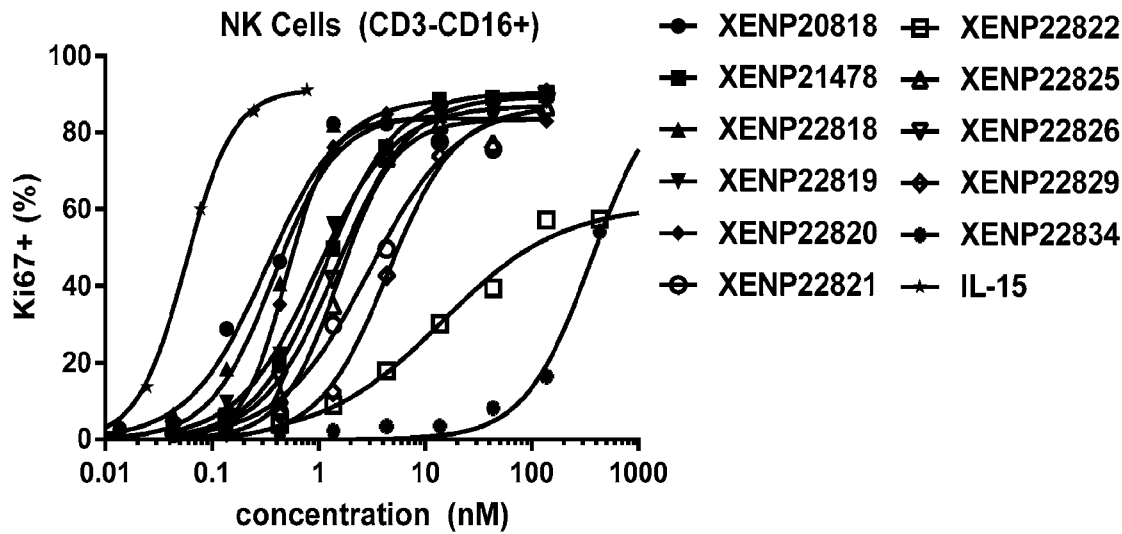
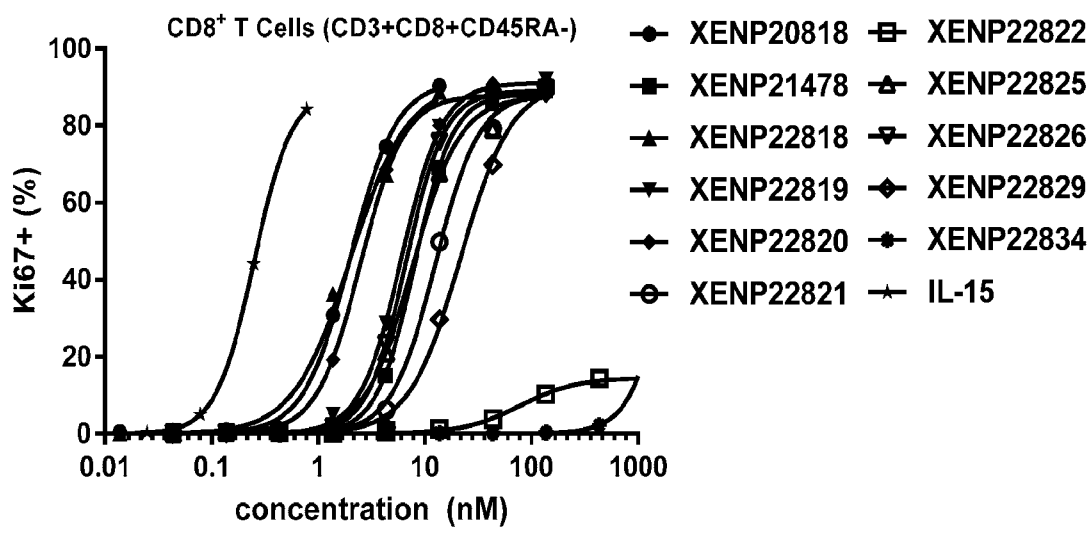


Figure 59B



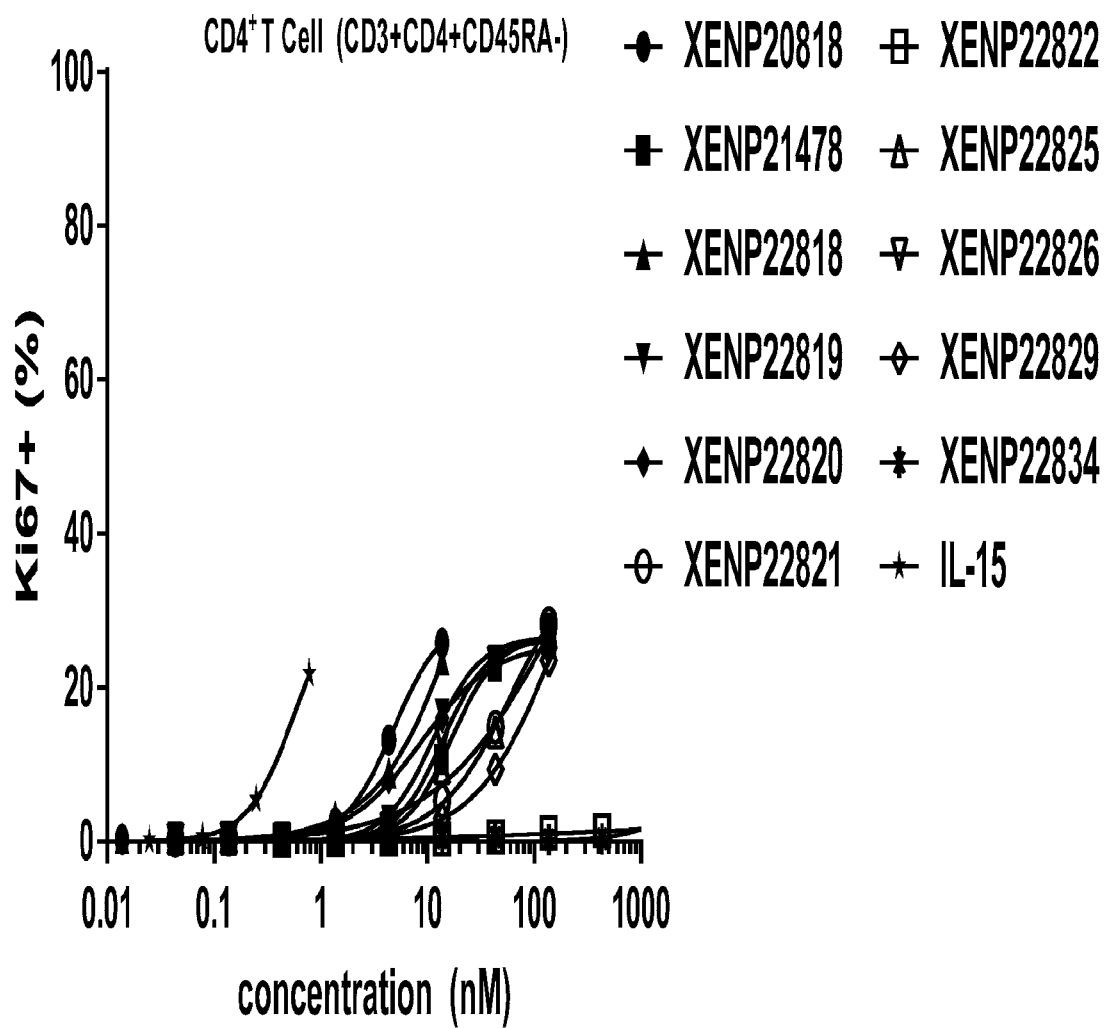


Figure 59D

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

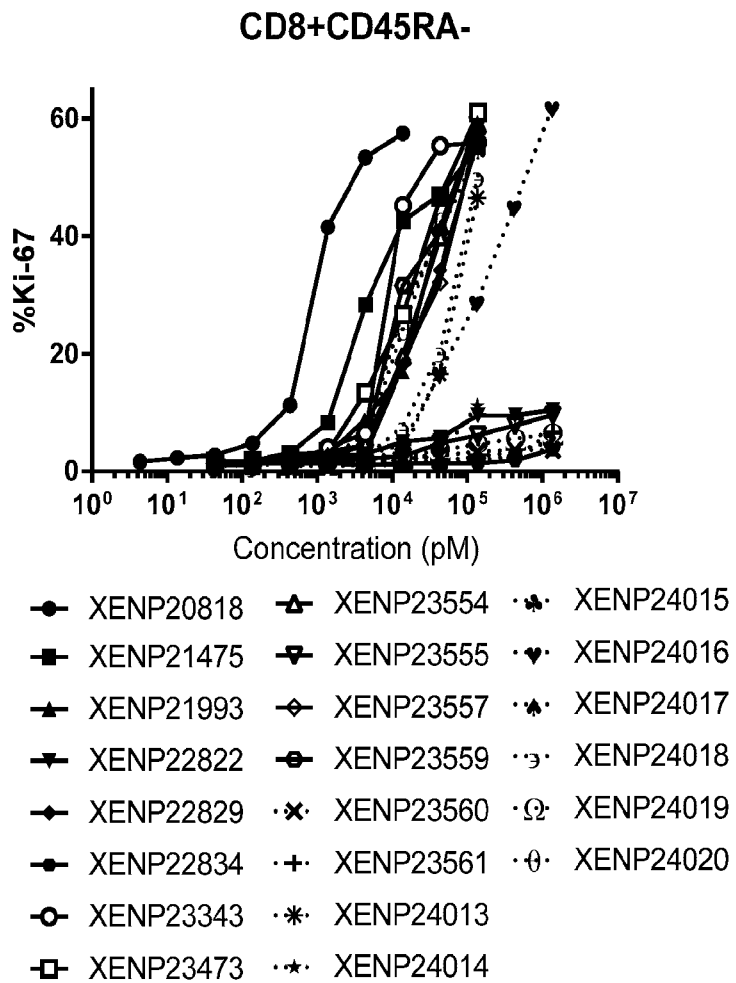


Figure 60B

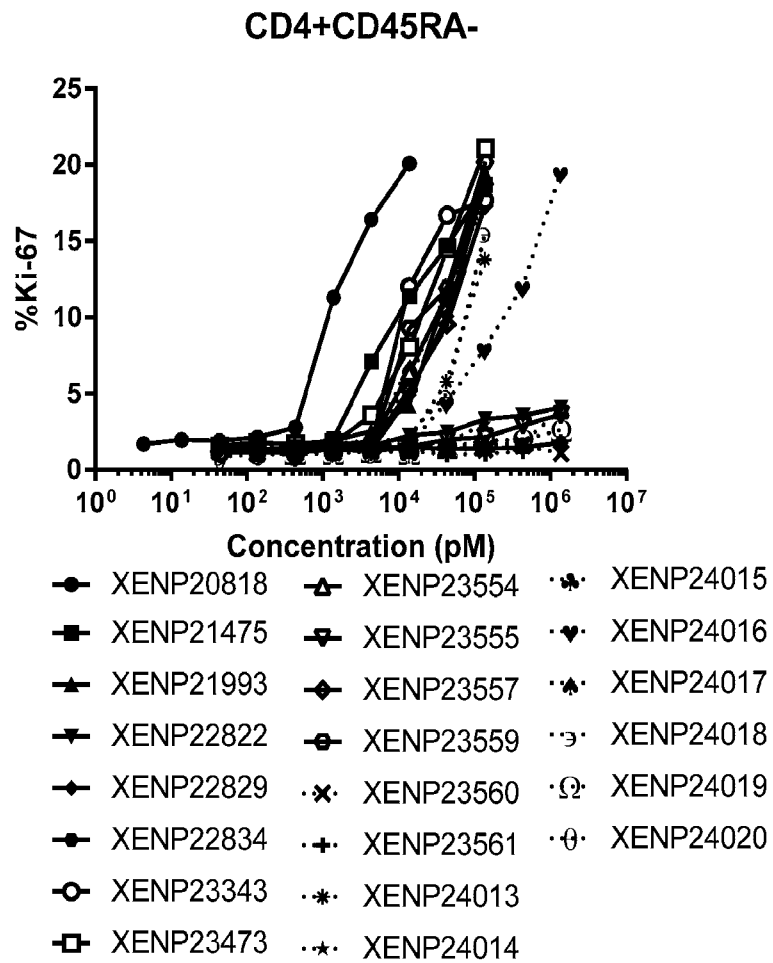


Figure 60C

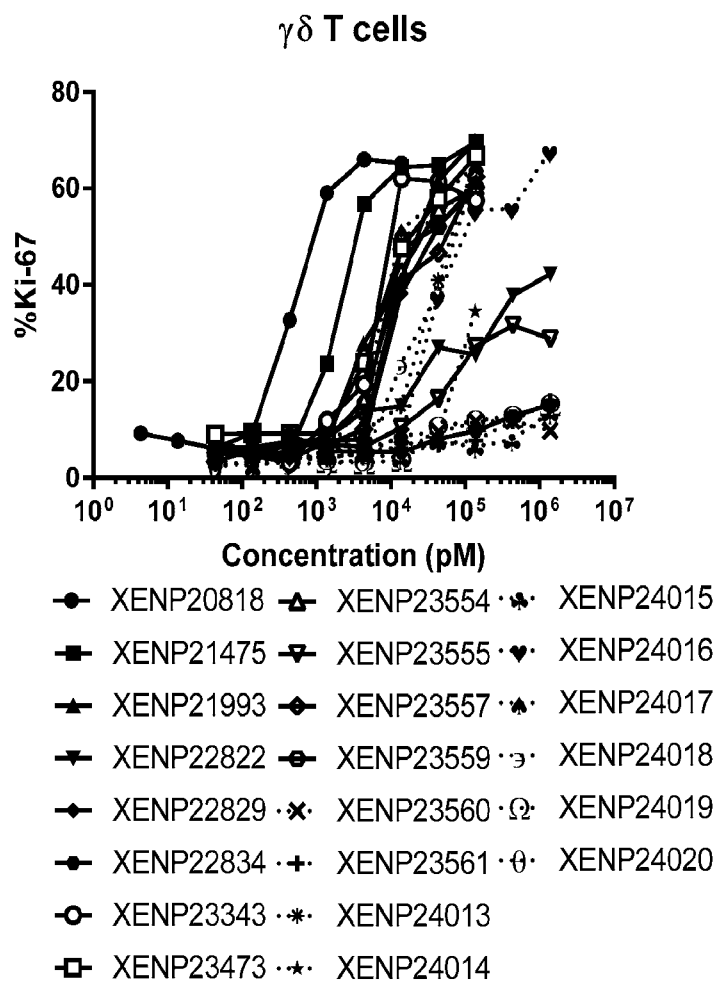


Figure 60D

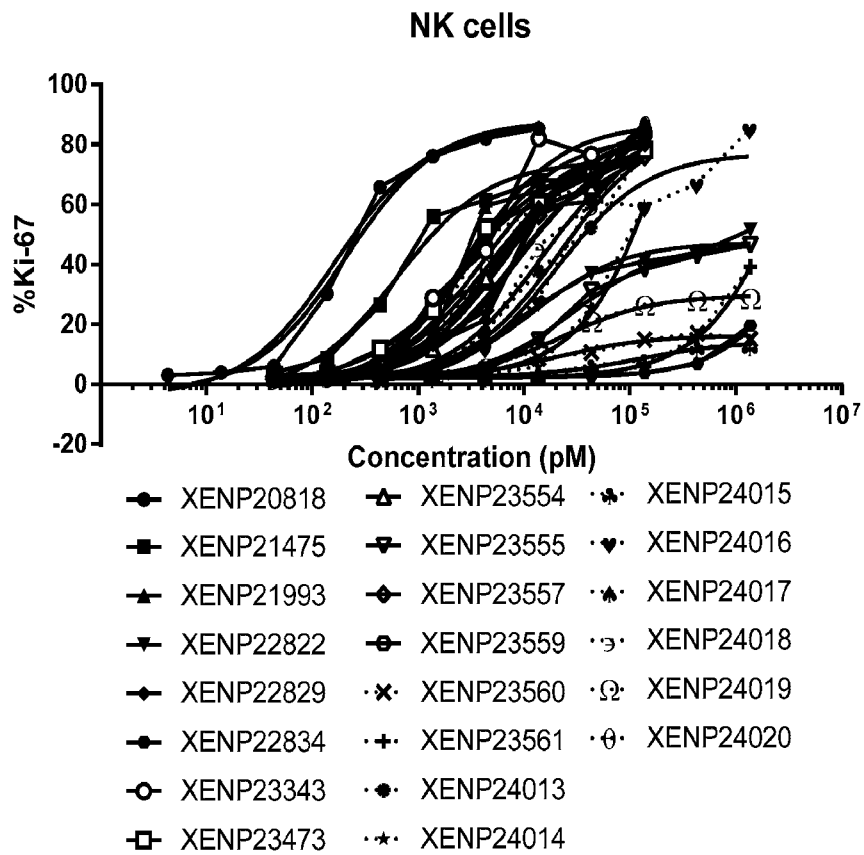


Figure 61A

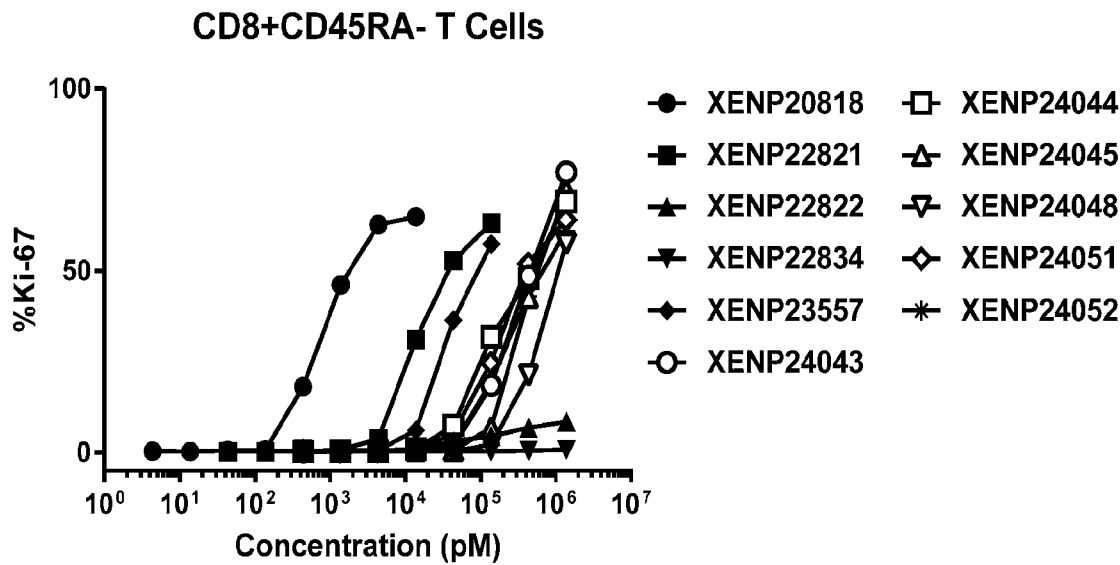


Figure 61B

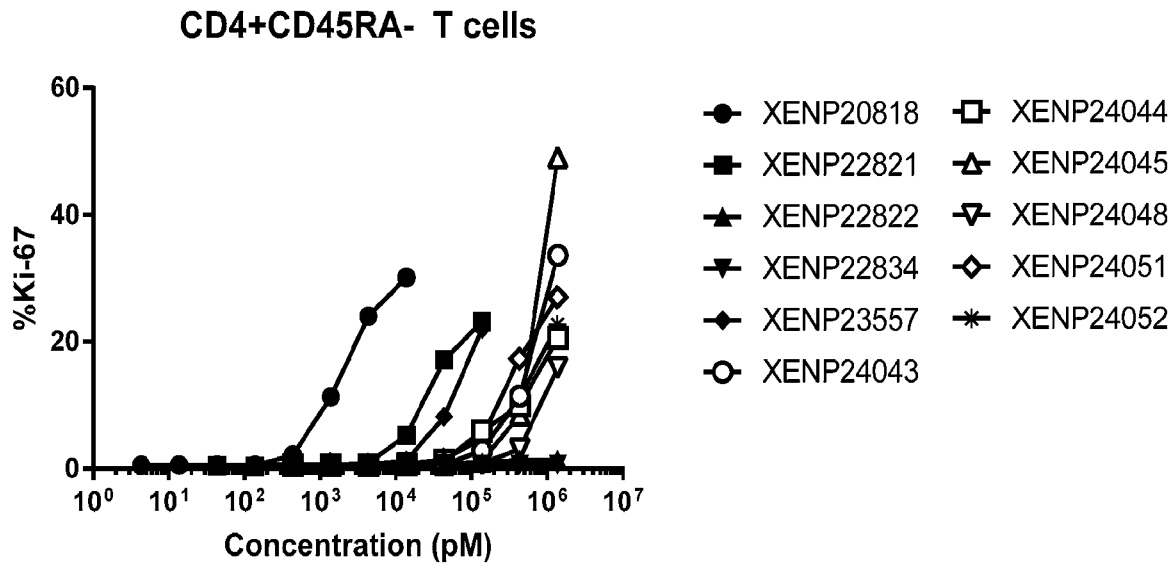


Figure 61C

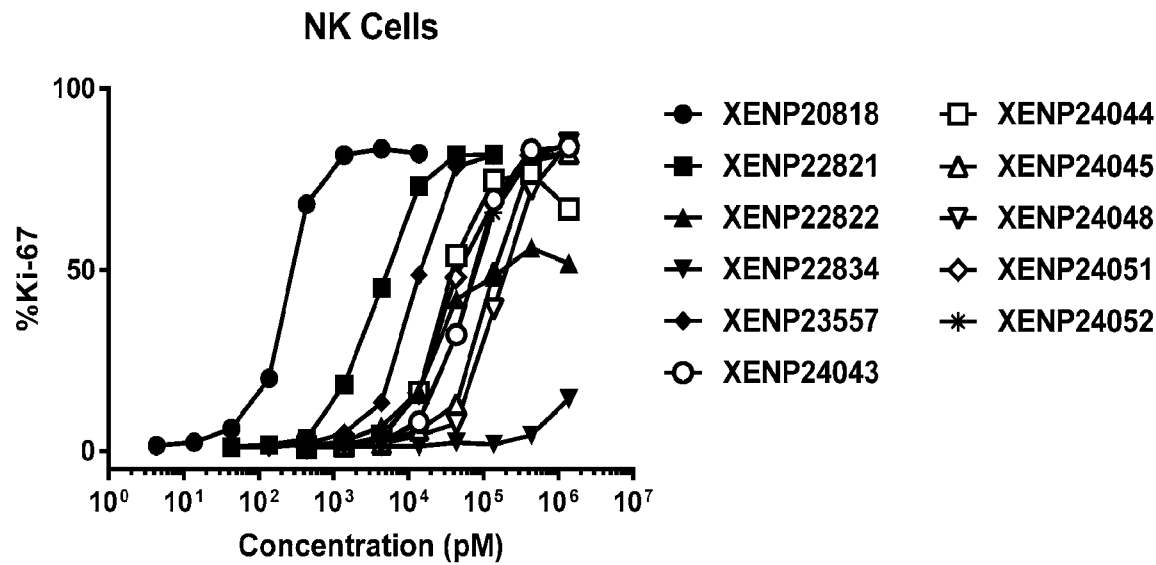


Figure 62A

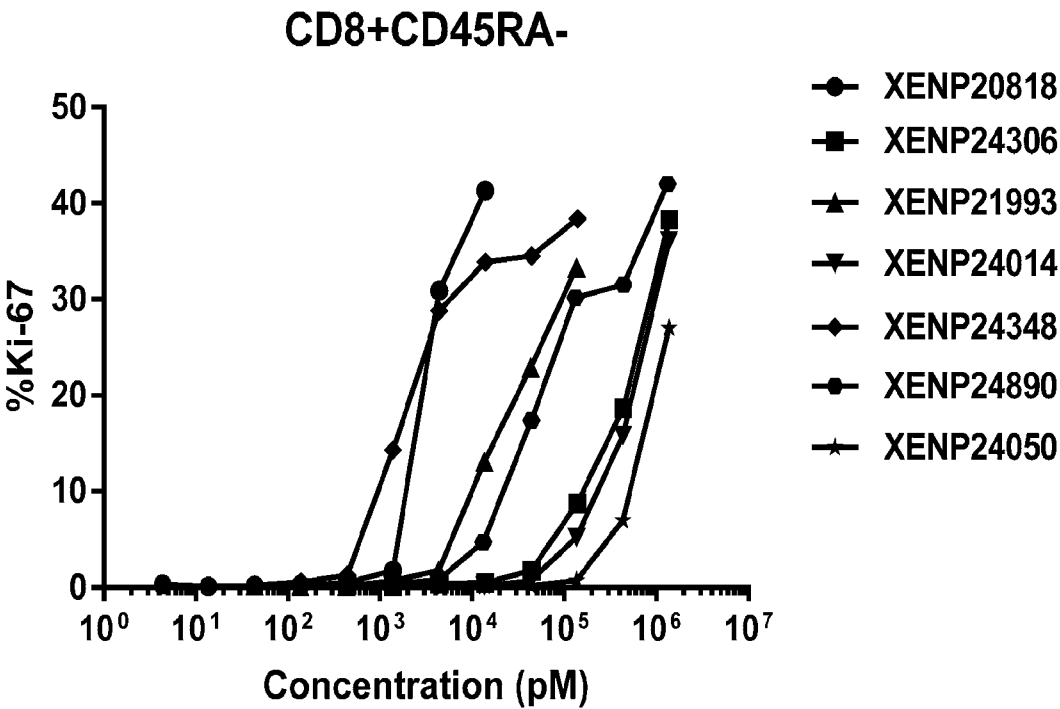


Figure 62B

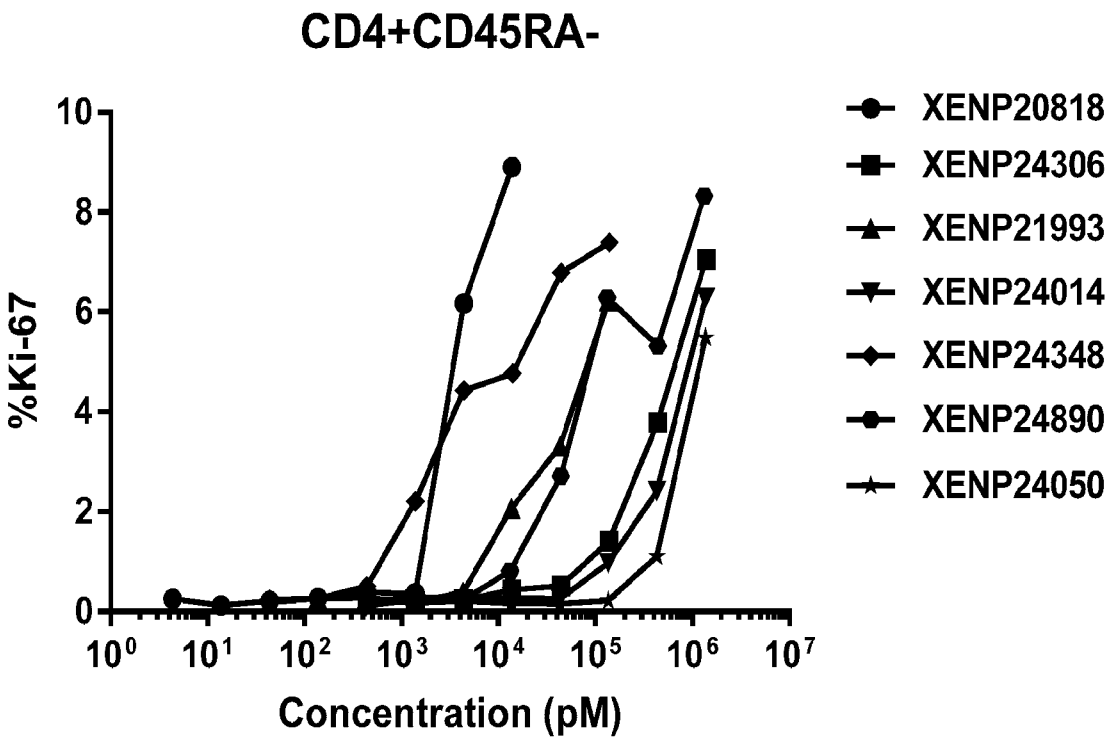


Figure 62C

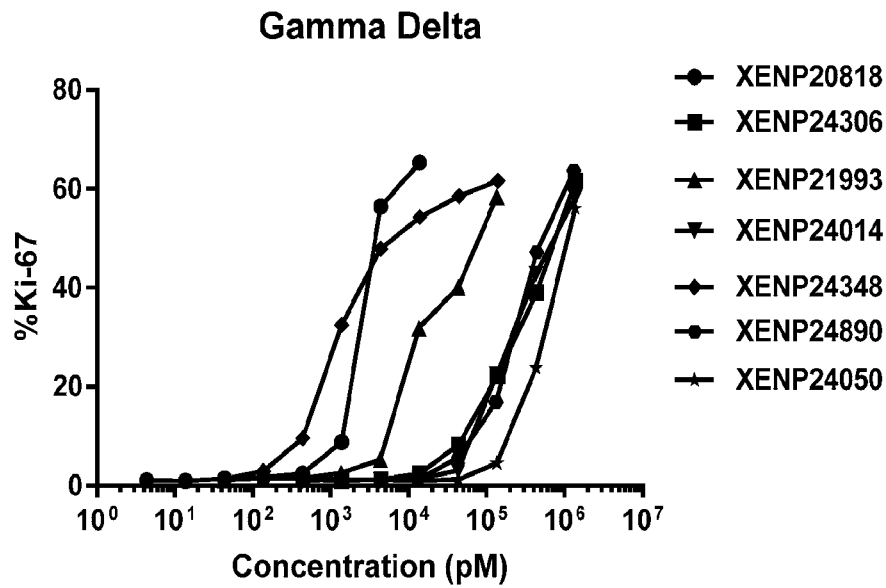


Figure 62D

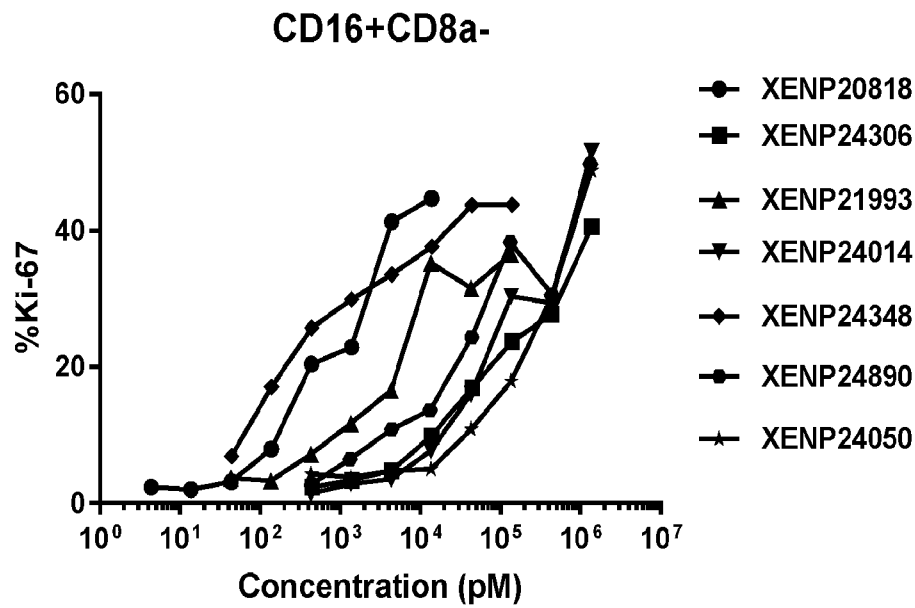


Figure 62E

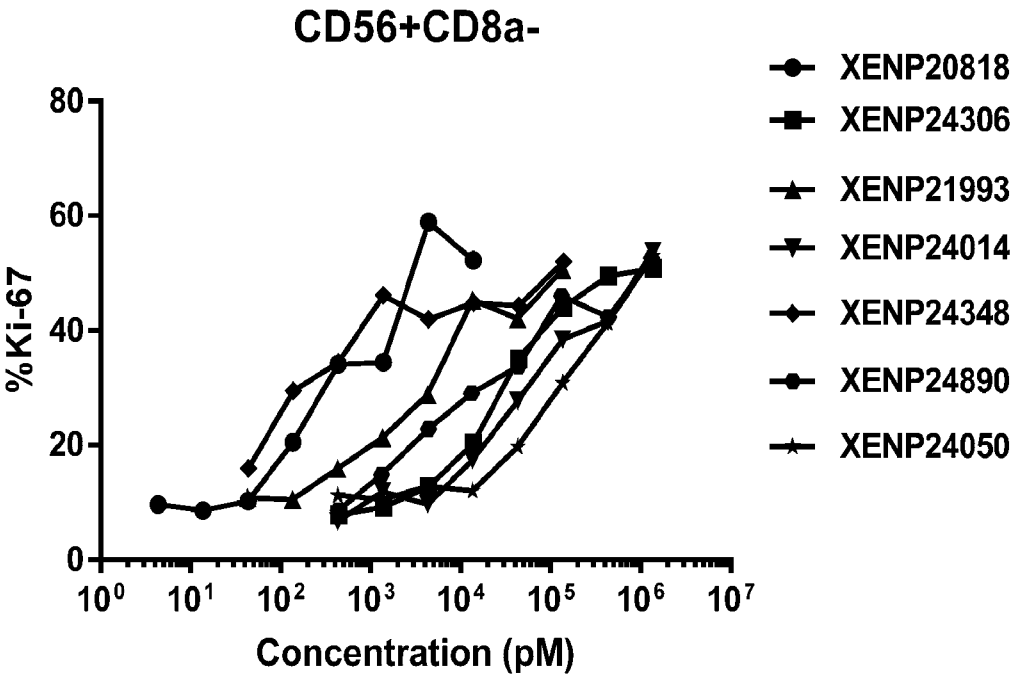


Figure 63A

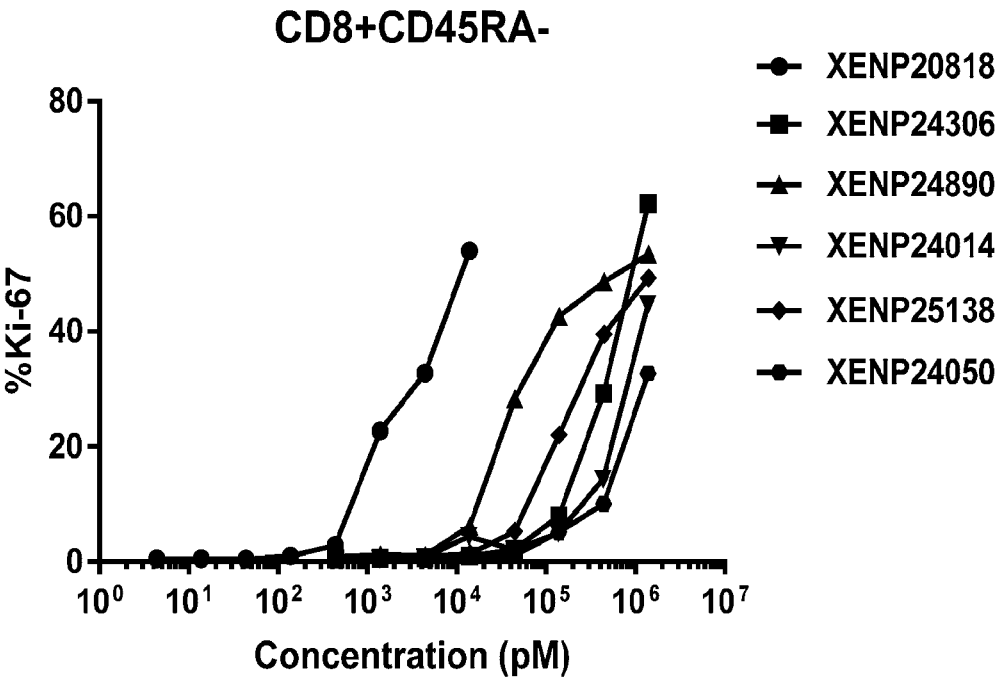


Figure 63B

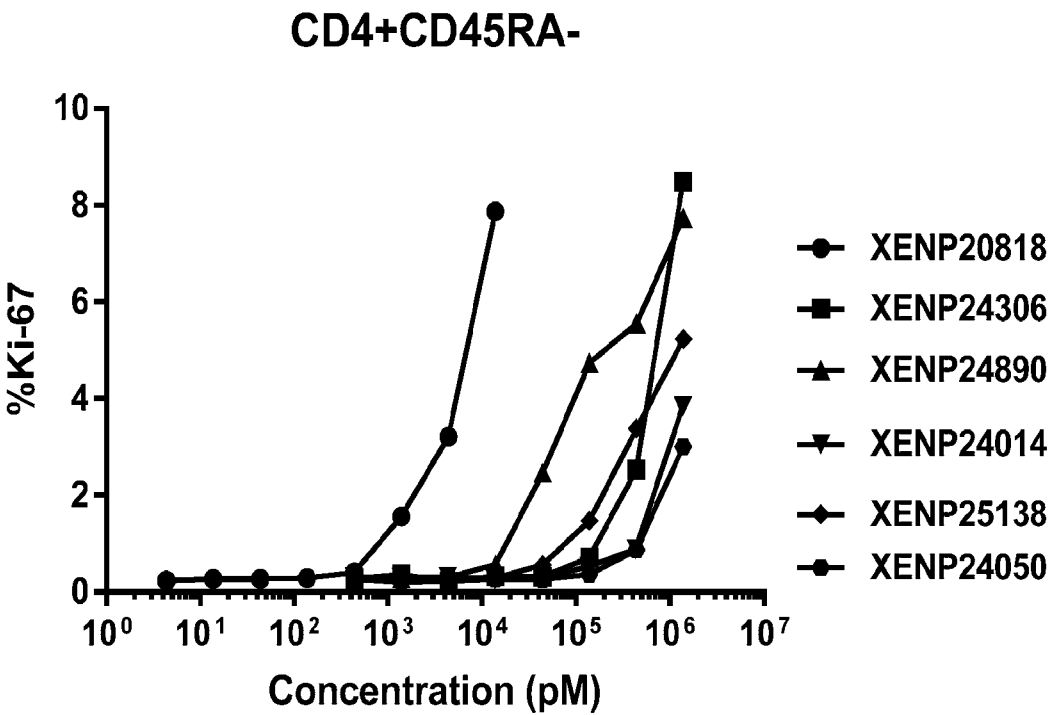


Figure 63C

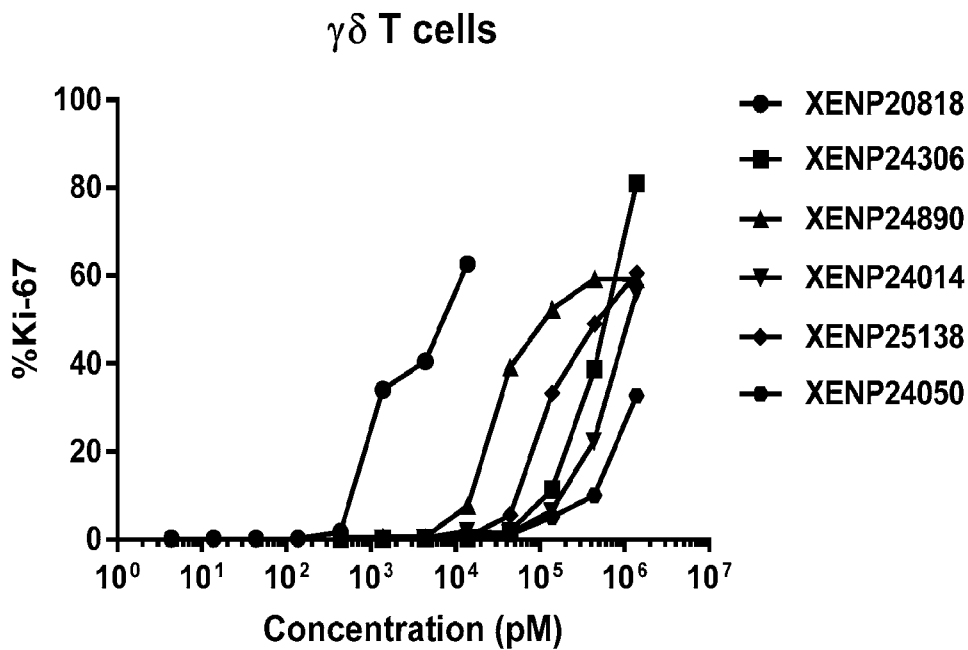


Figure 63D

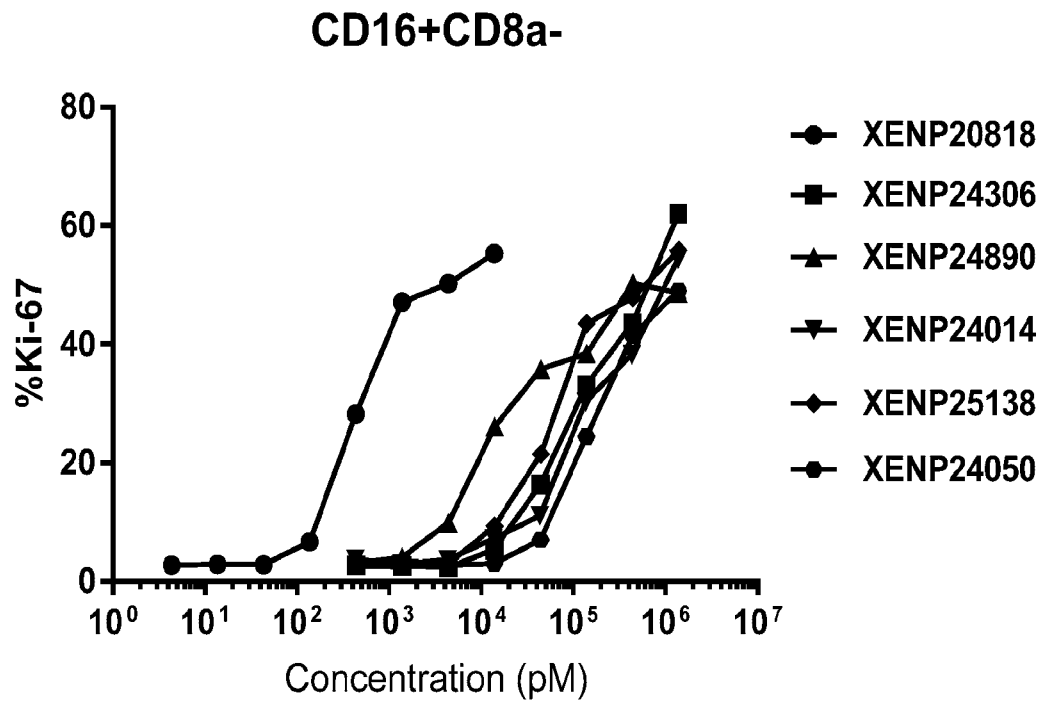


Figure 63E

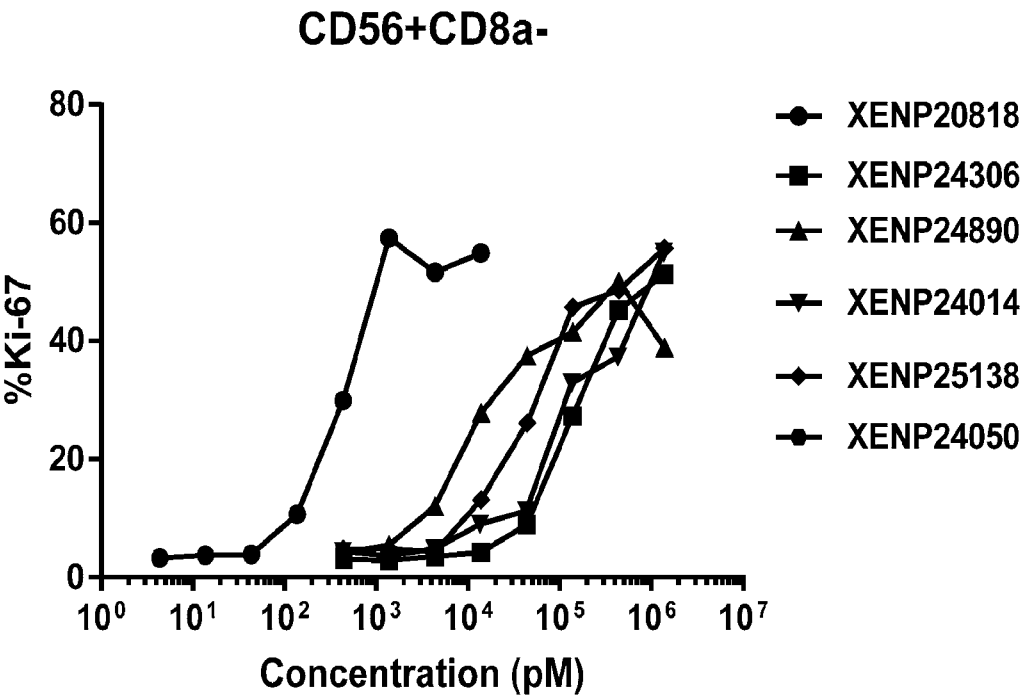
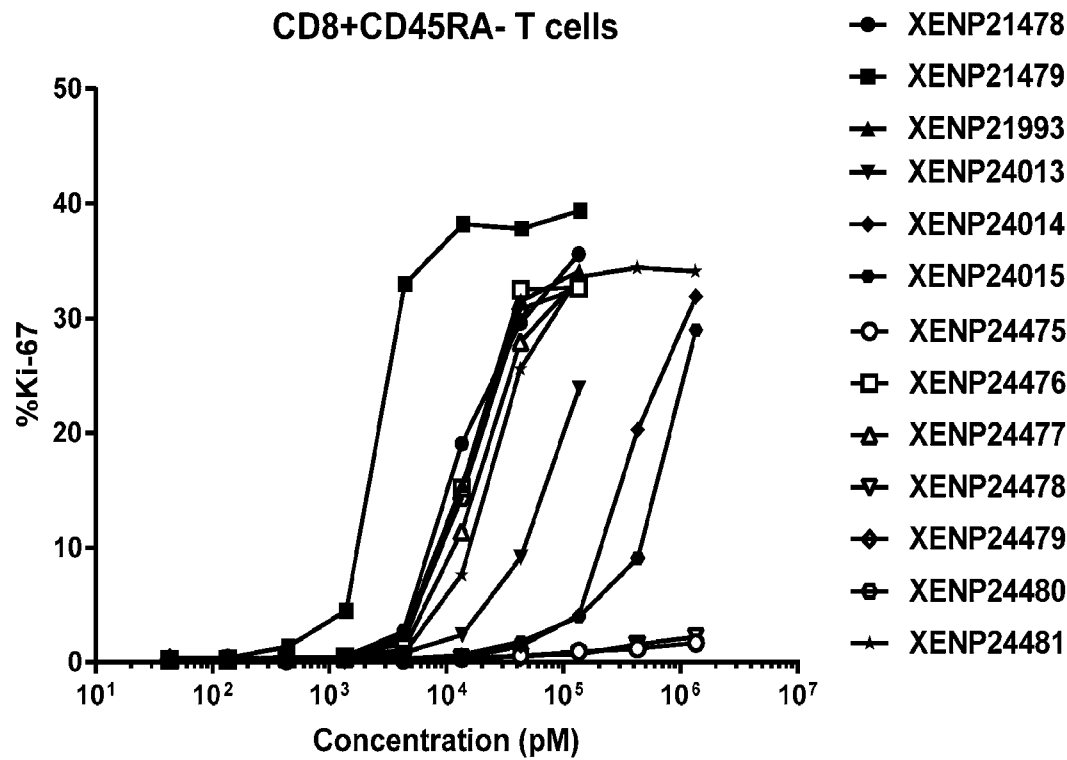
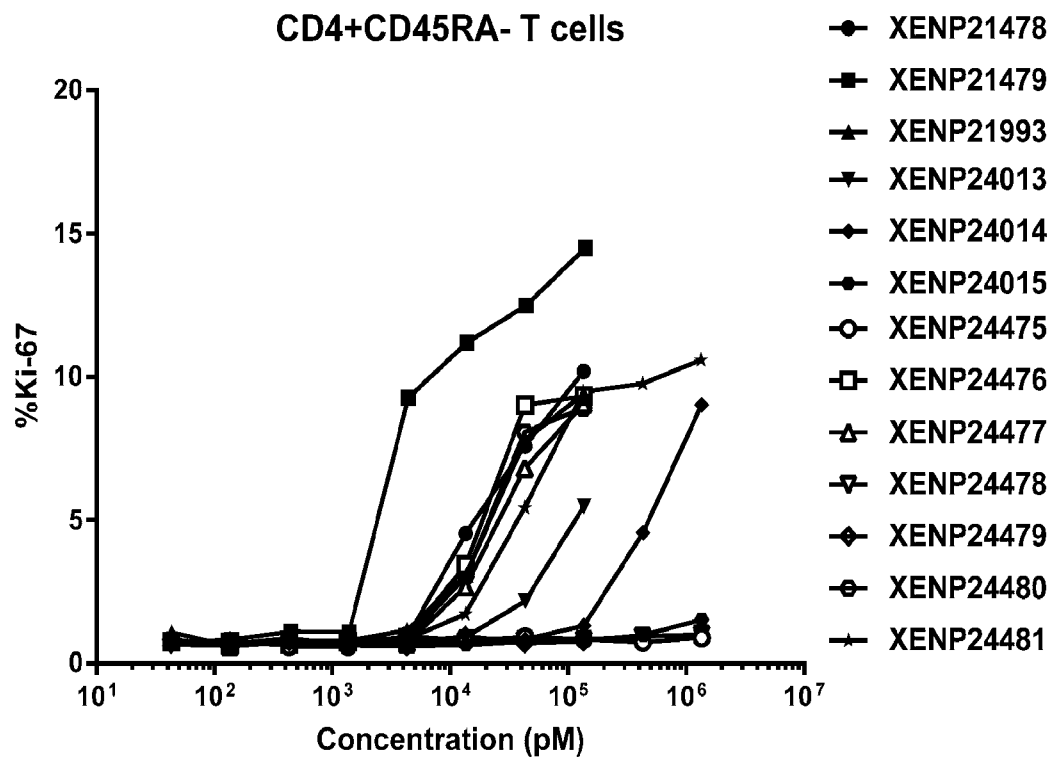


Figure 64A





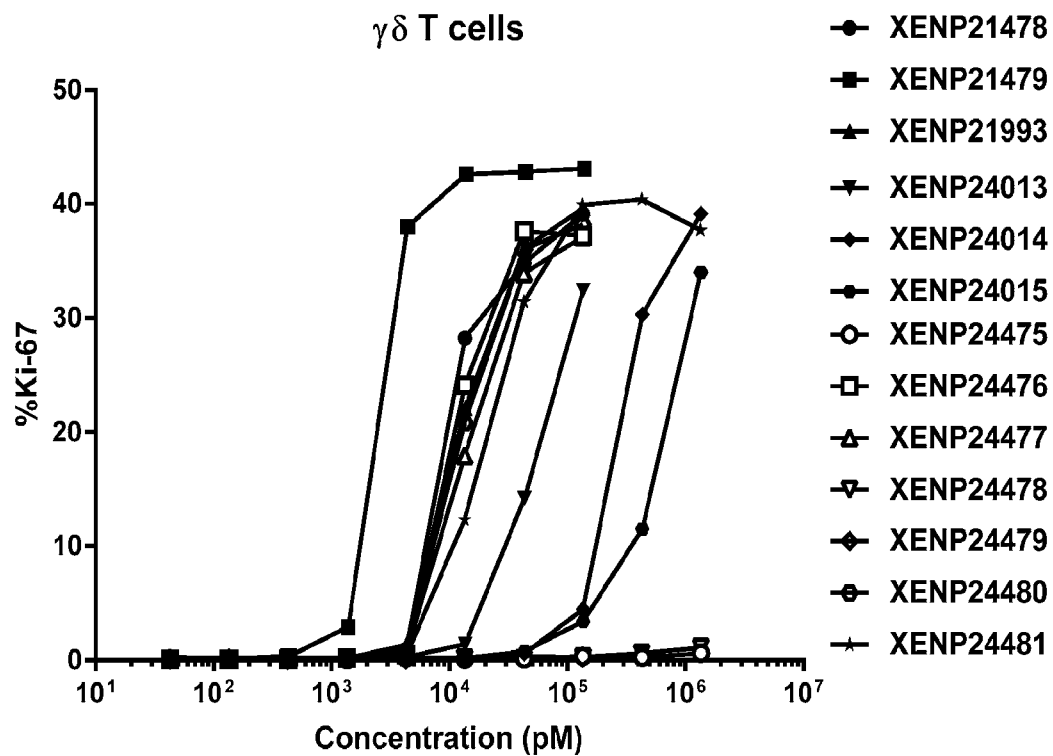


Figure 64D

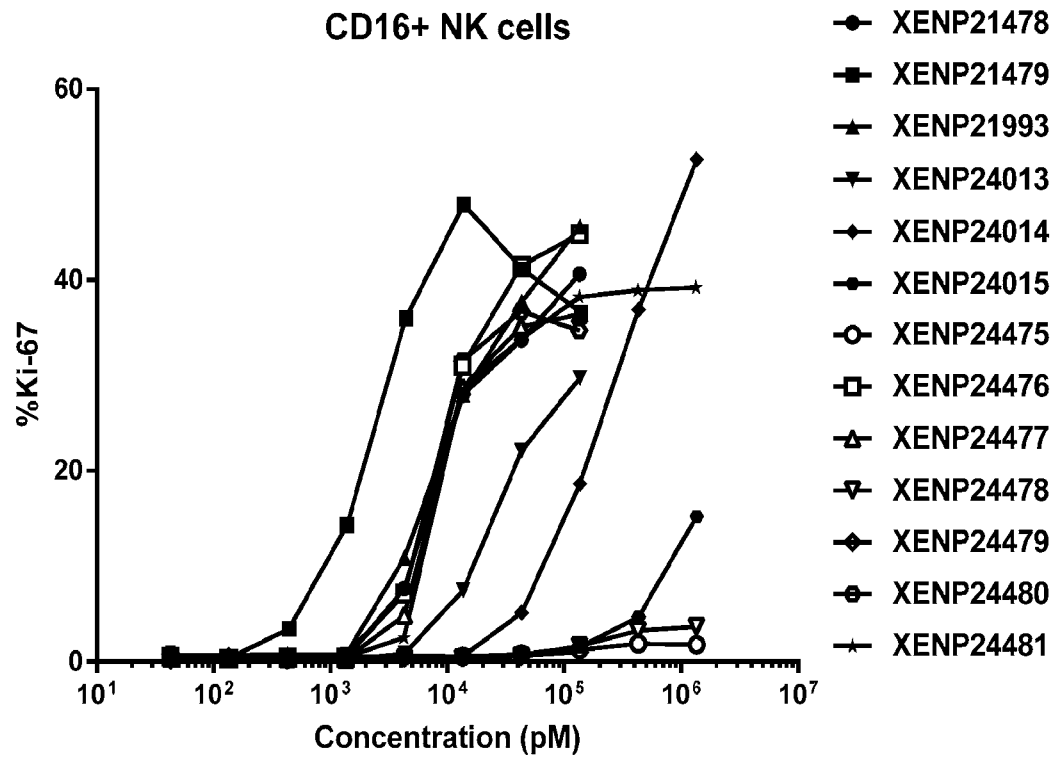


Figure 65A

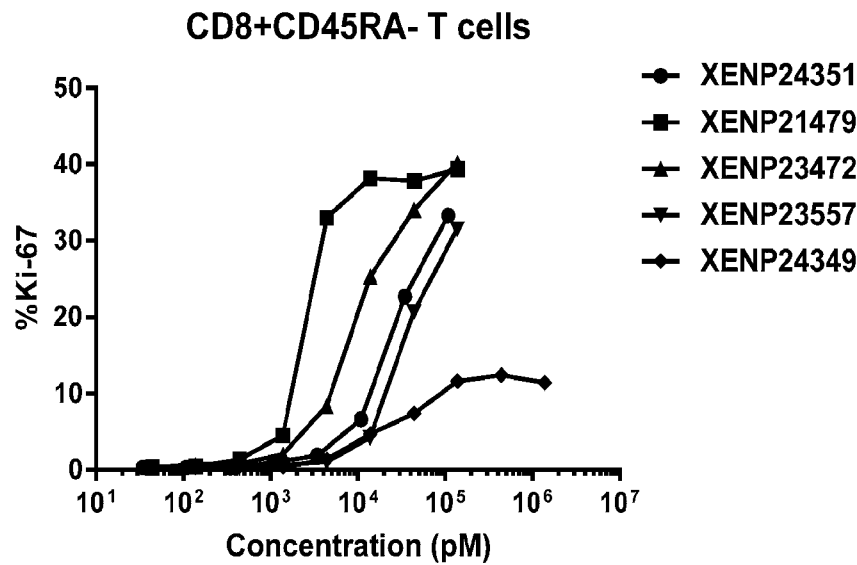


Figure 65B

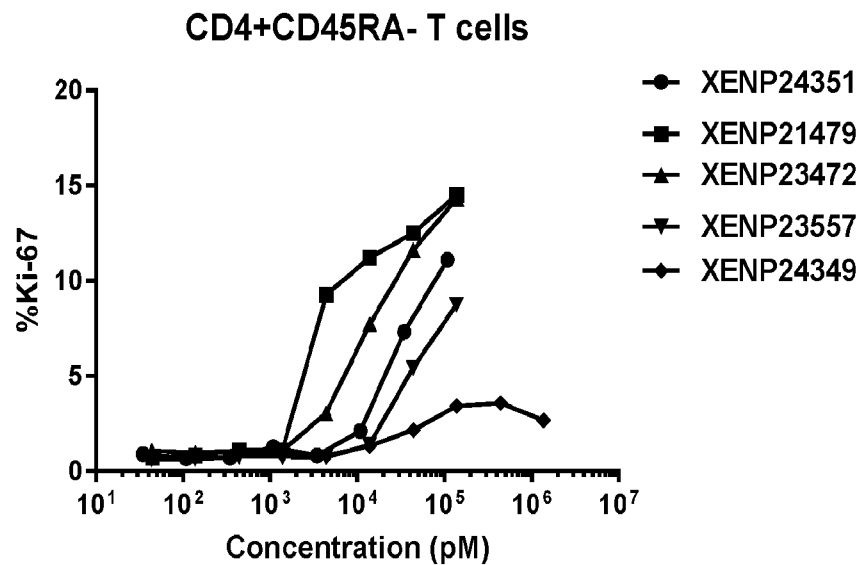


Figure 65C

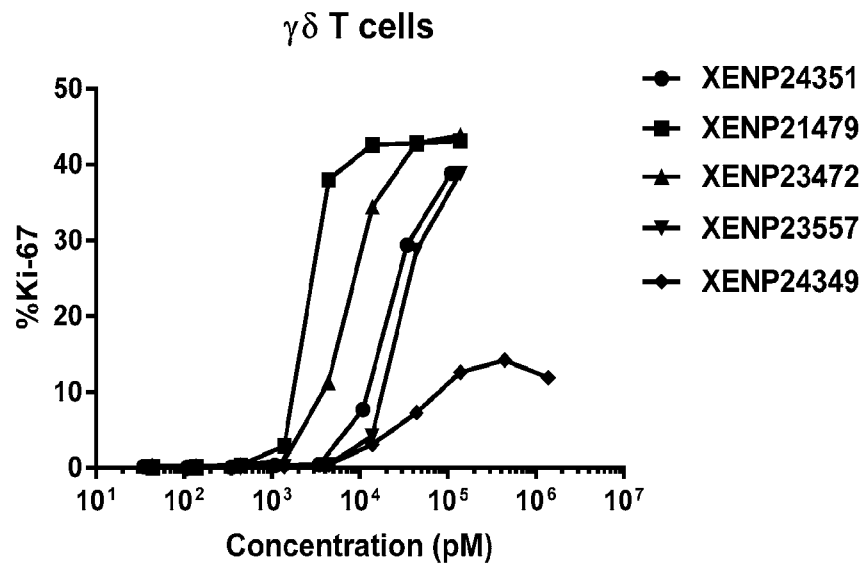


Figure 65D

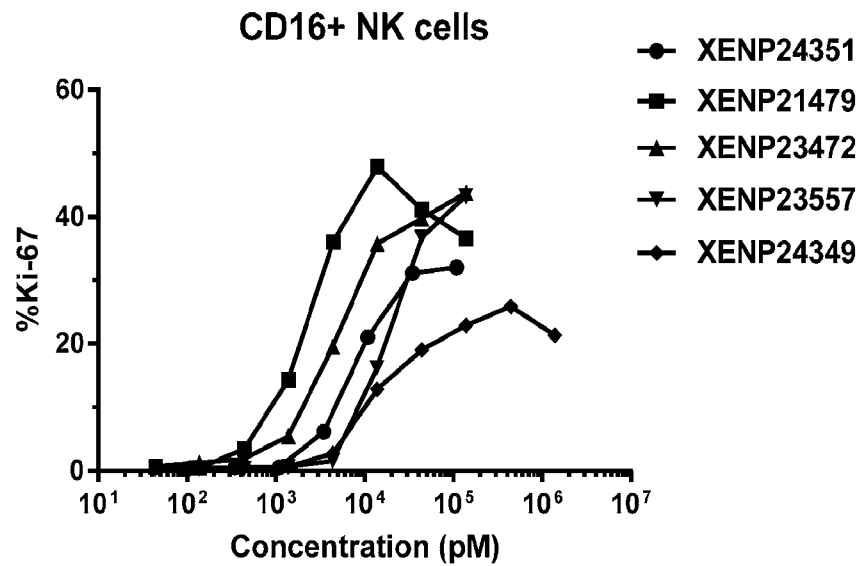


Figure 66A

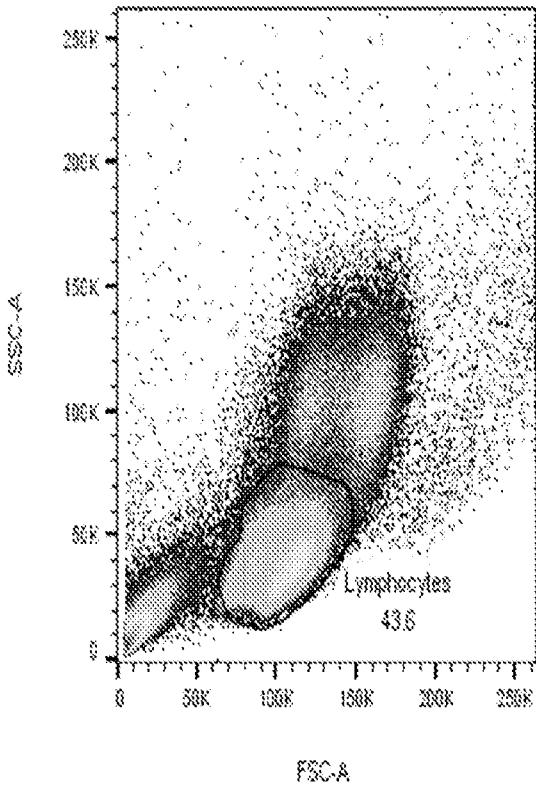


Figure 66B

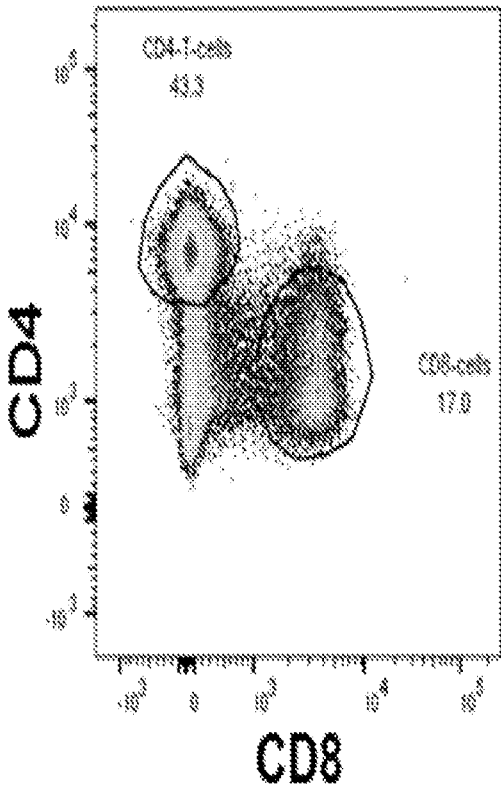


Figure 66C

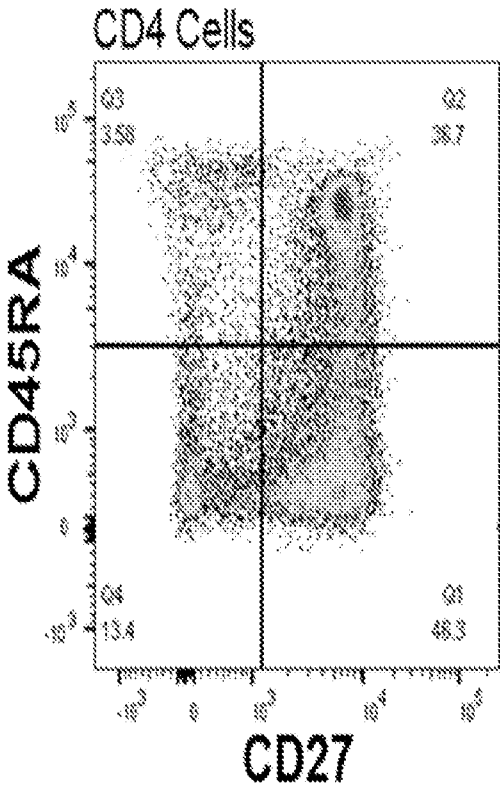


Figure 66D

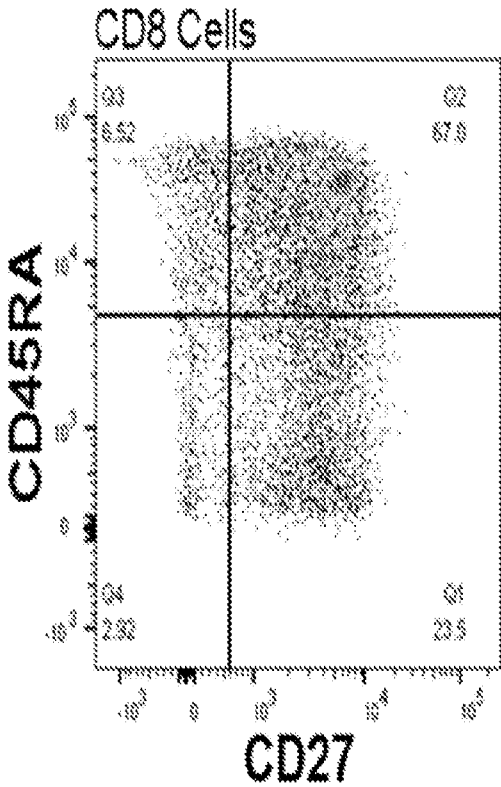


Figure 67A

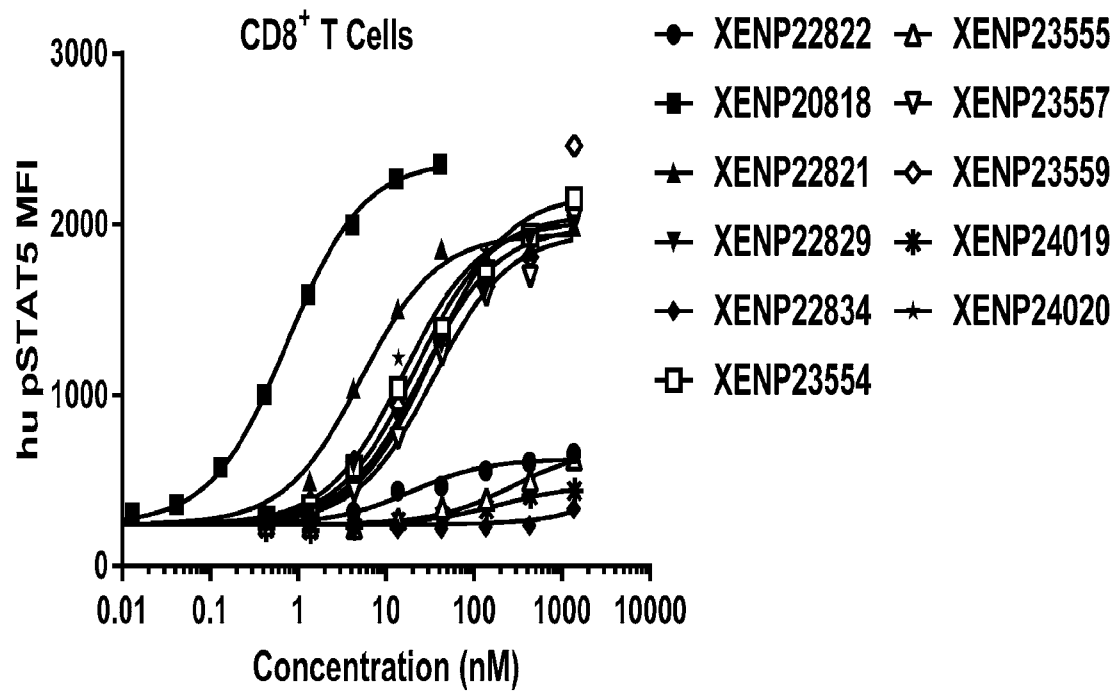


Figure 67B

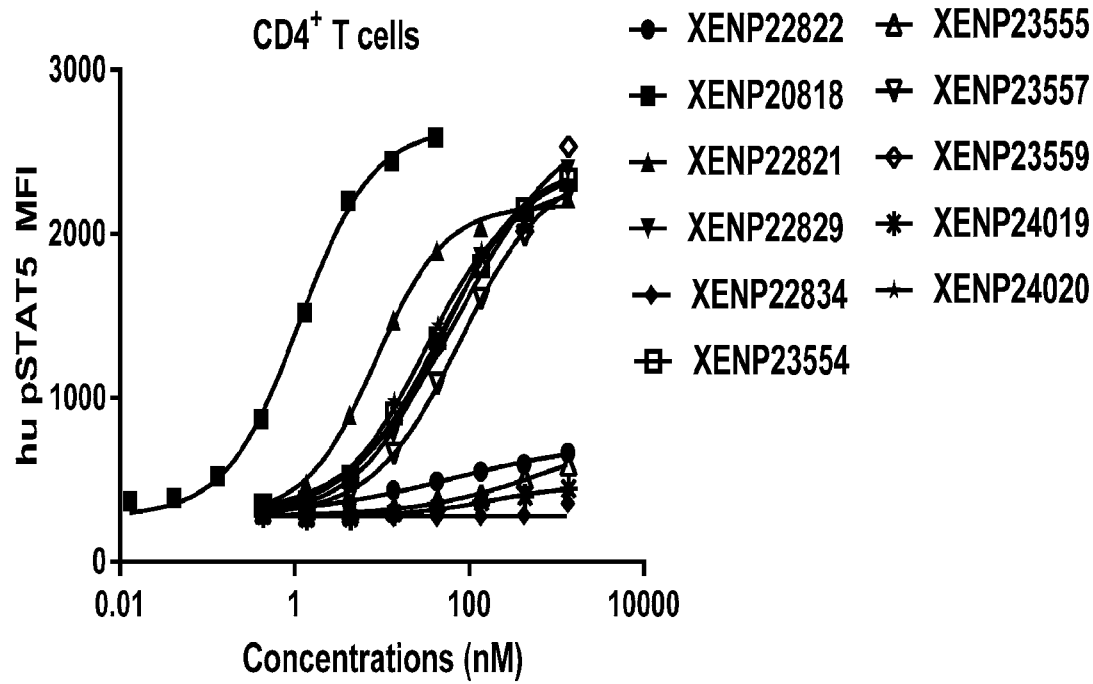


Figure 67C

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

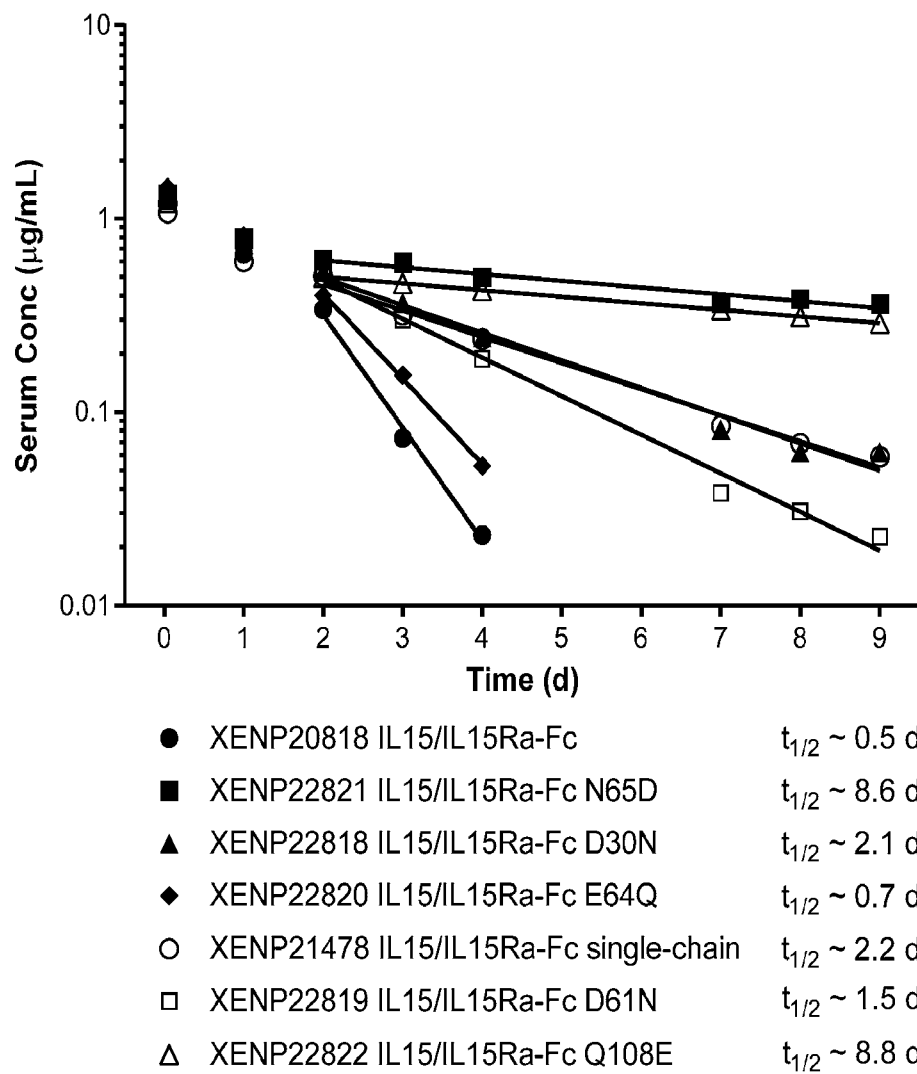


Figure 69

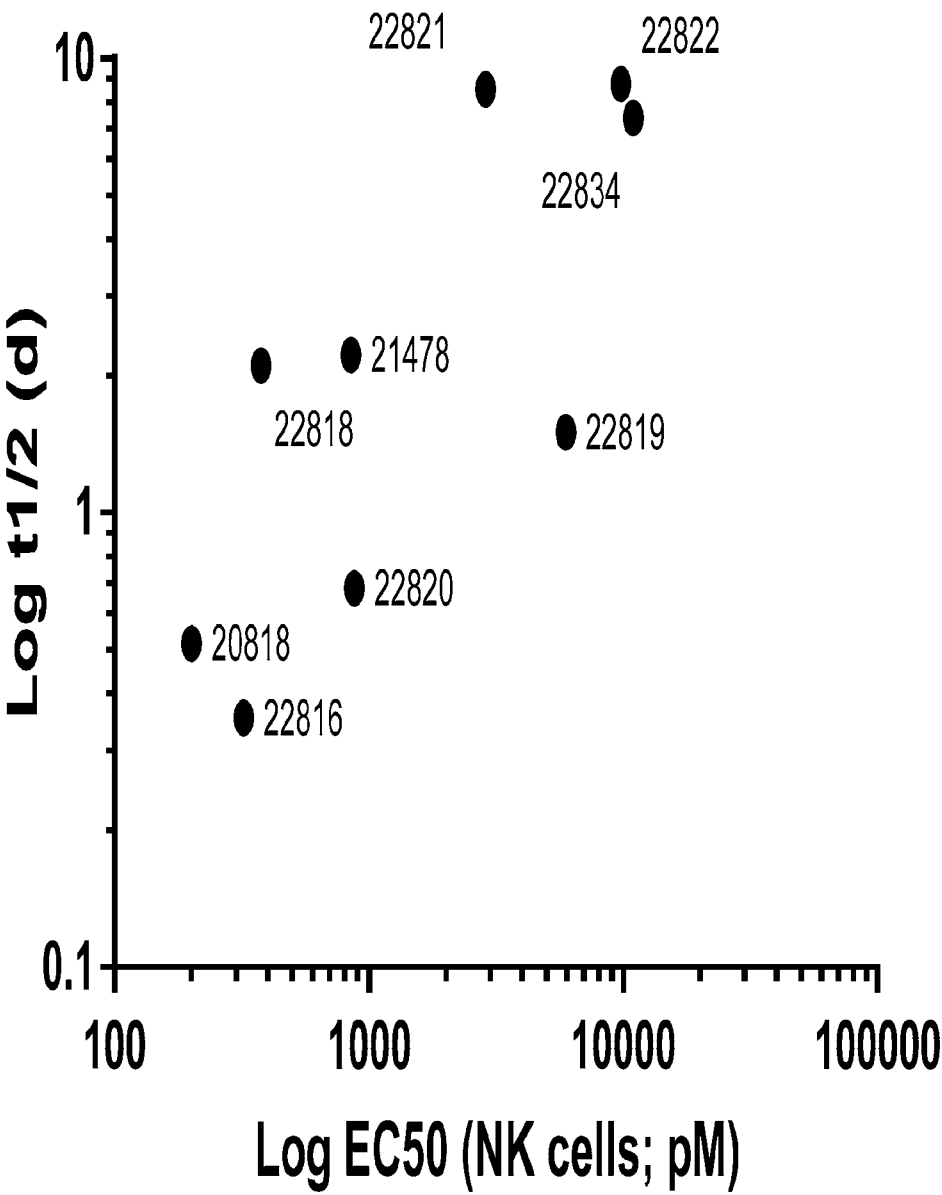


Figure 70

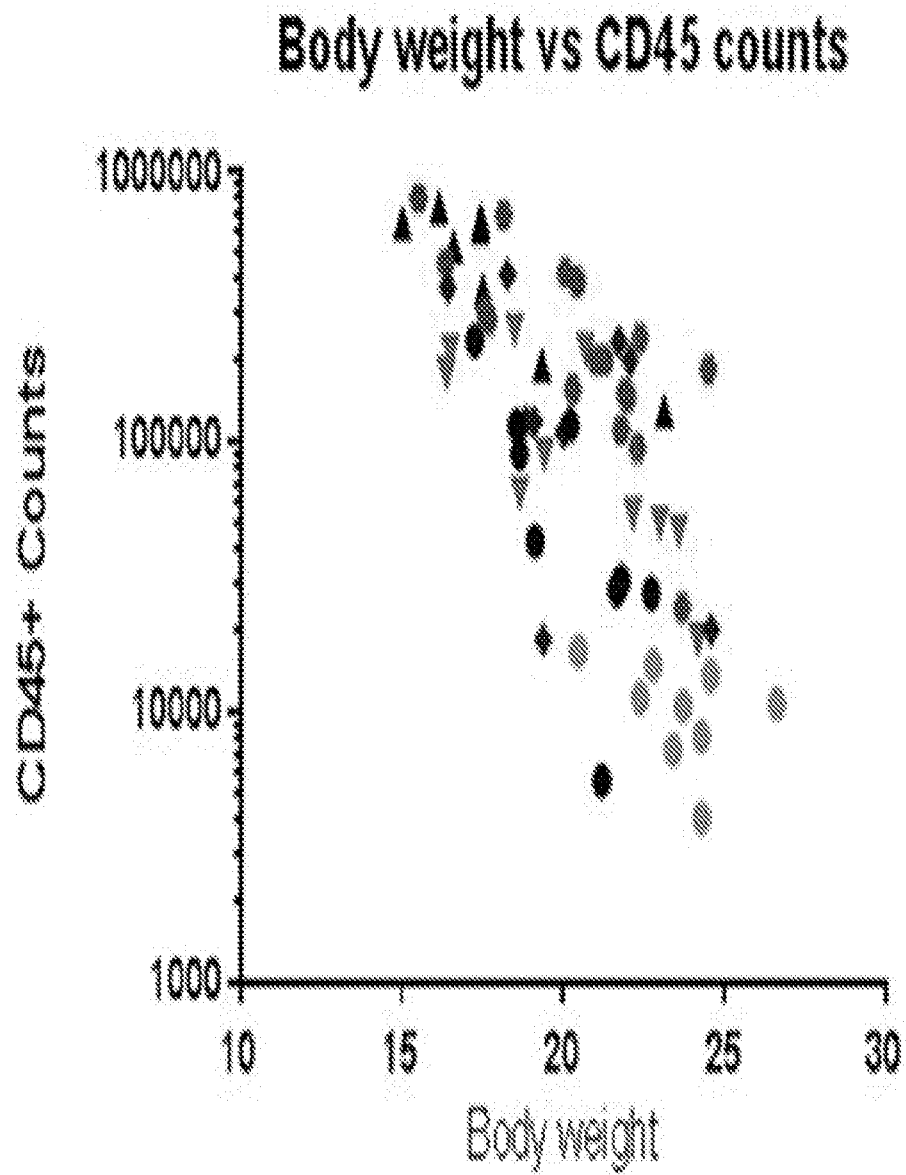


Figure 71A

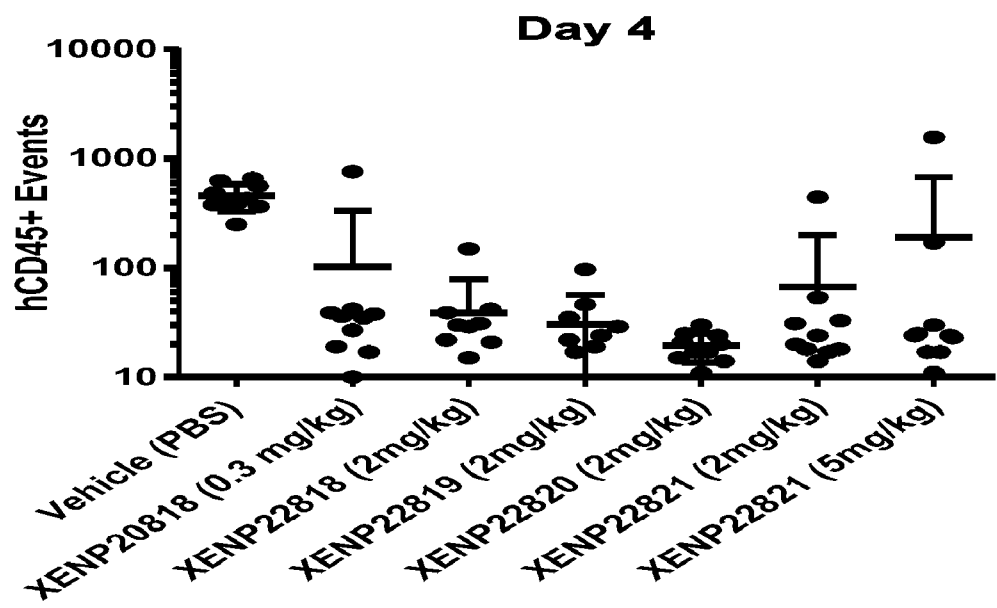


Figure 71B

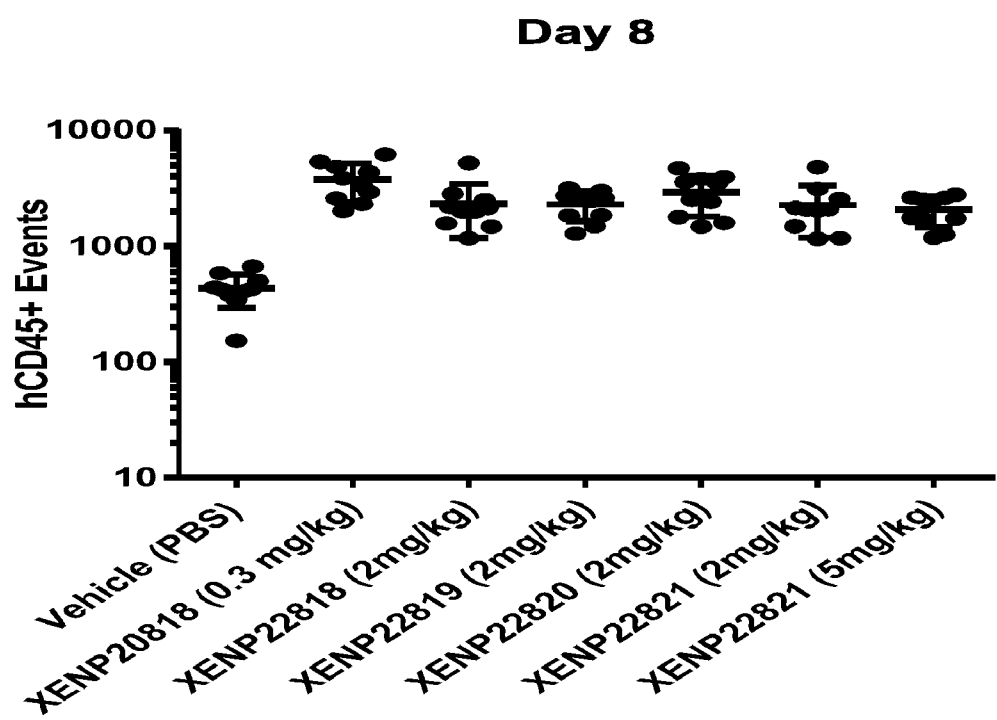


Figure 72A

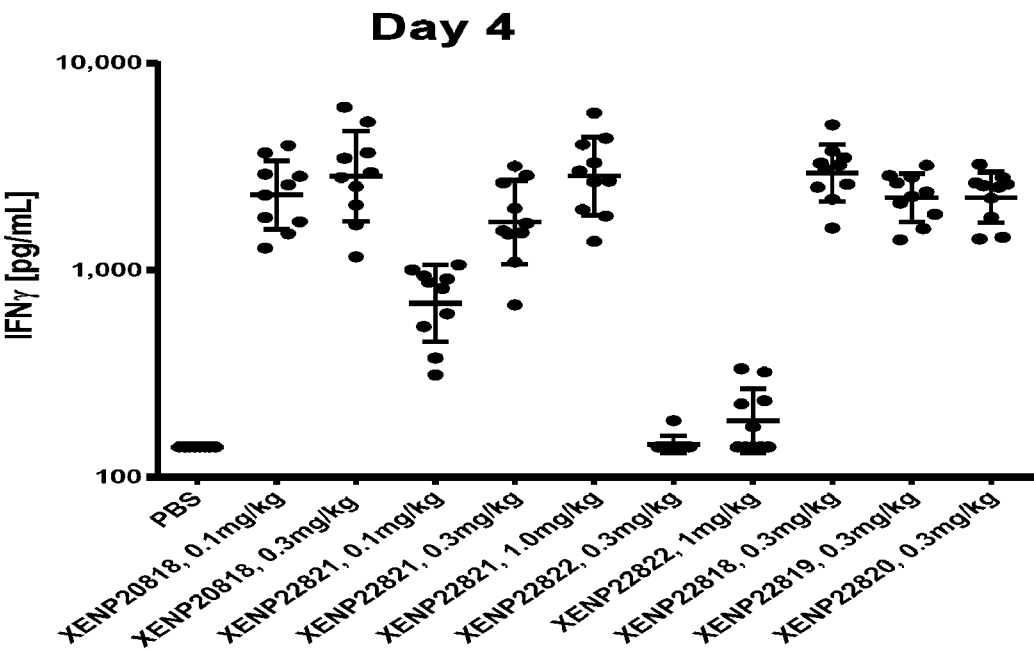


Figure 72B

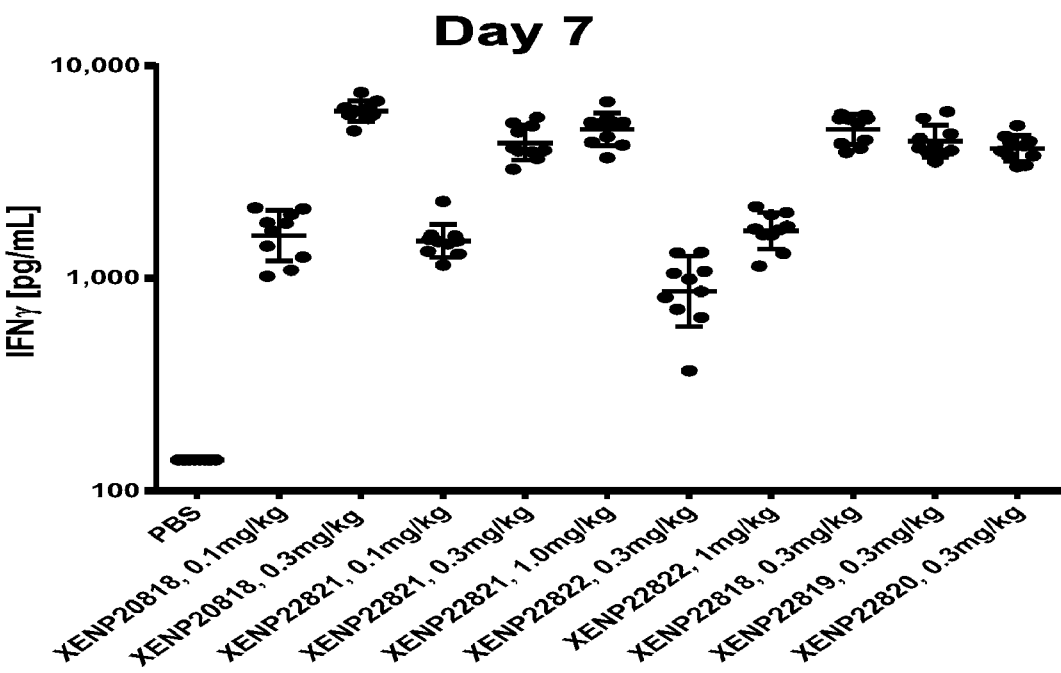


Figure 72C

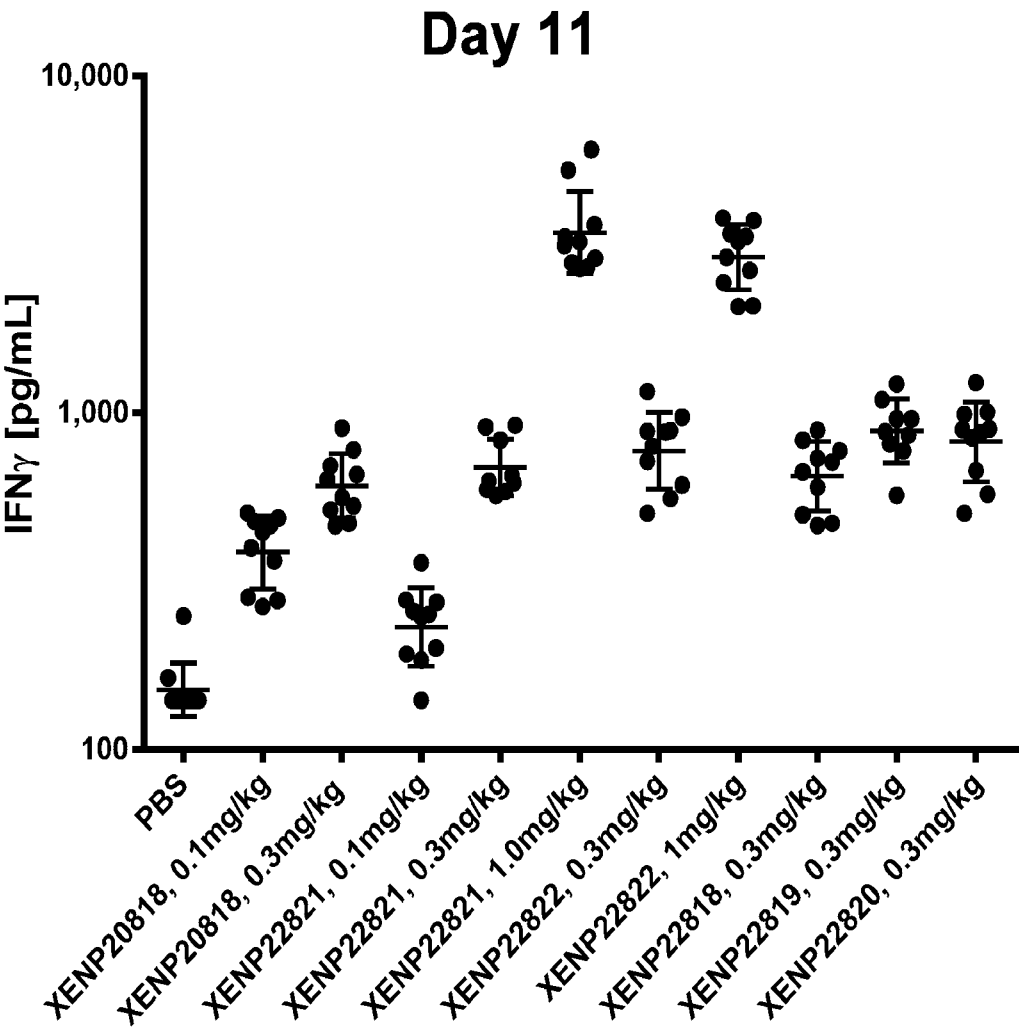


Figure 73A

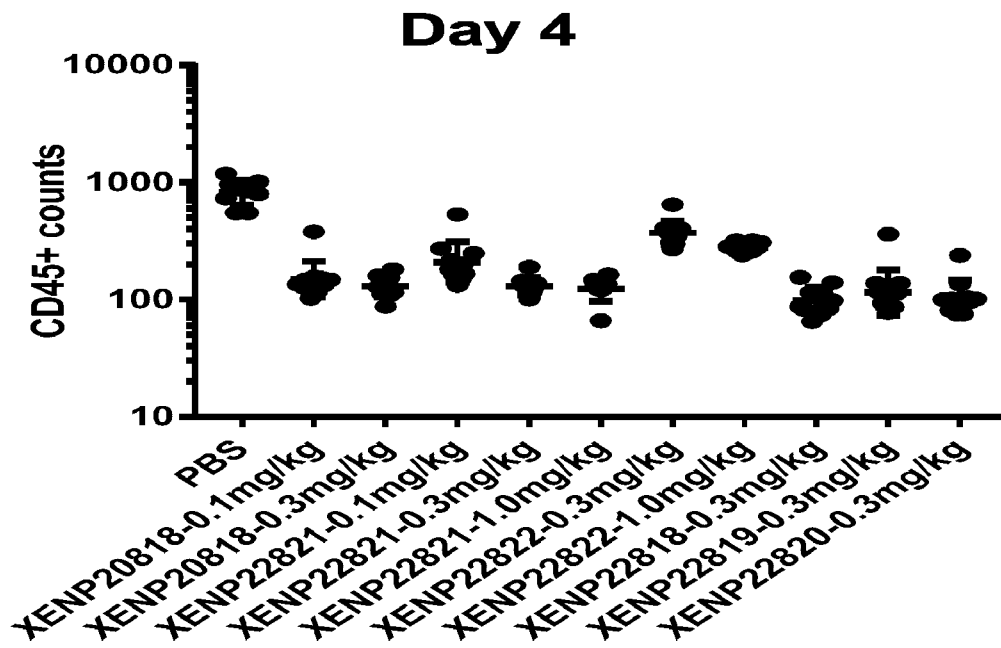


Figure 73B

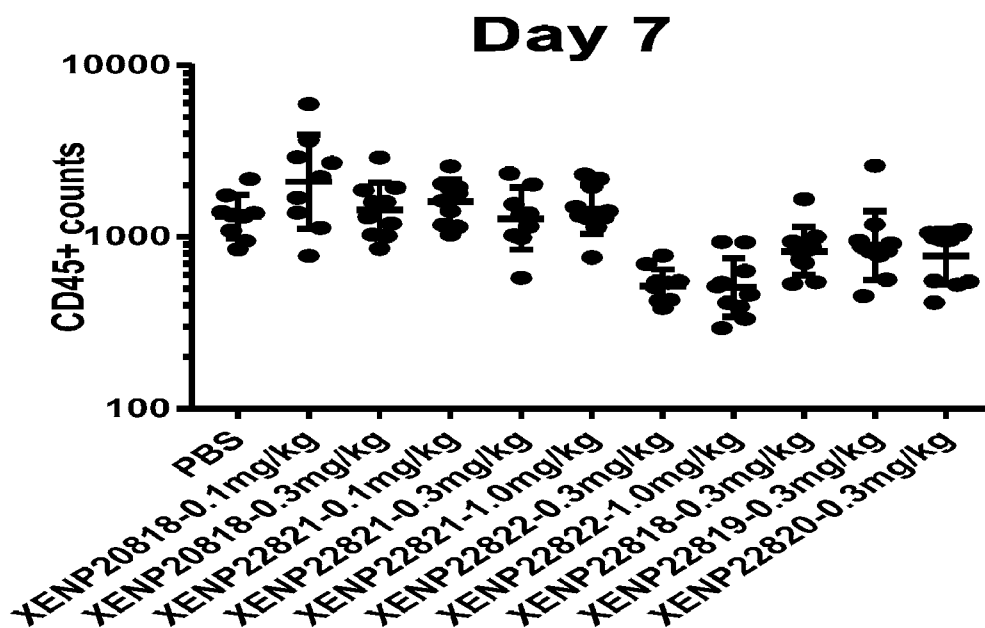


Figure 73C

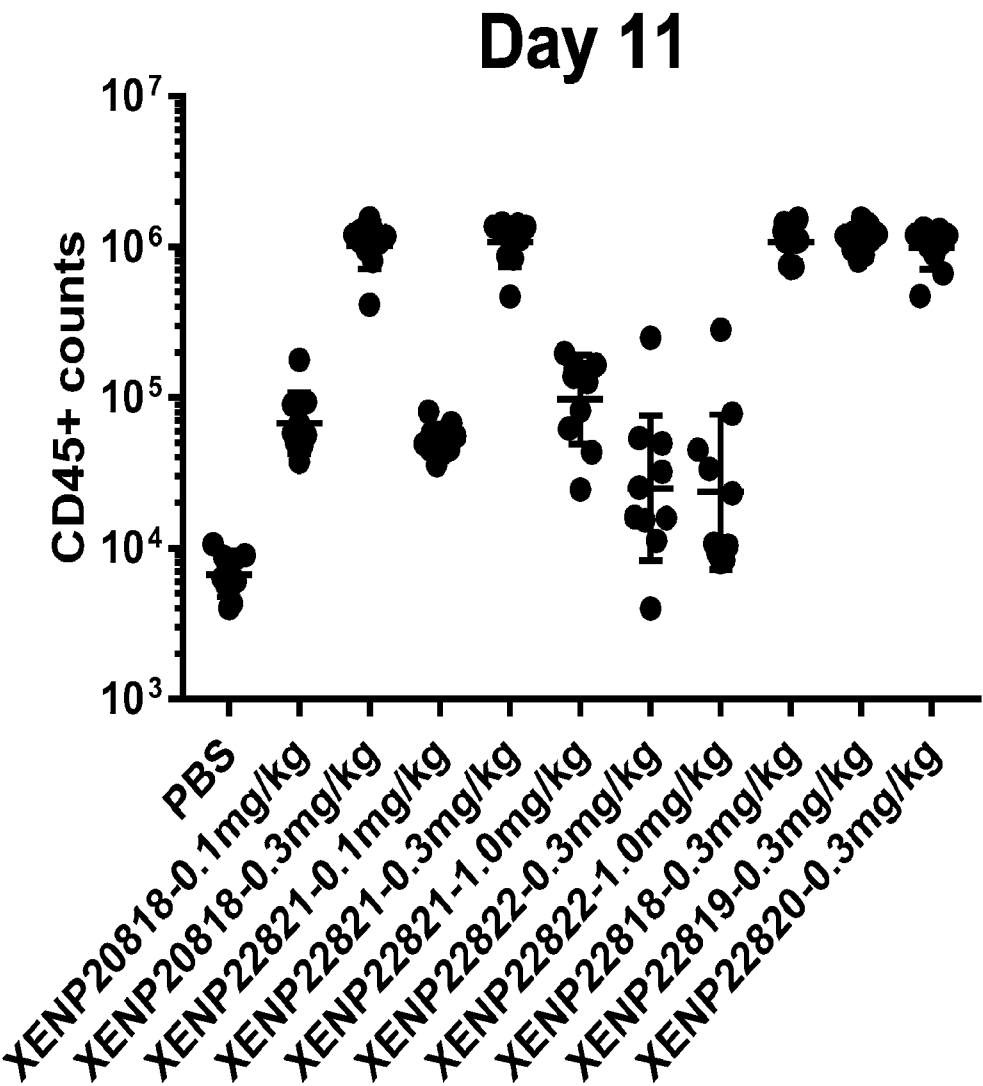


Figure 74A

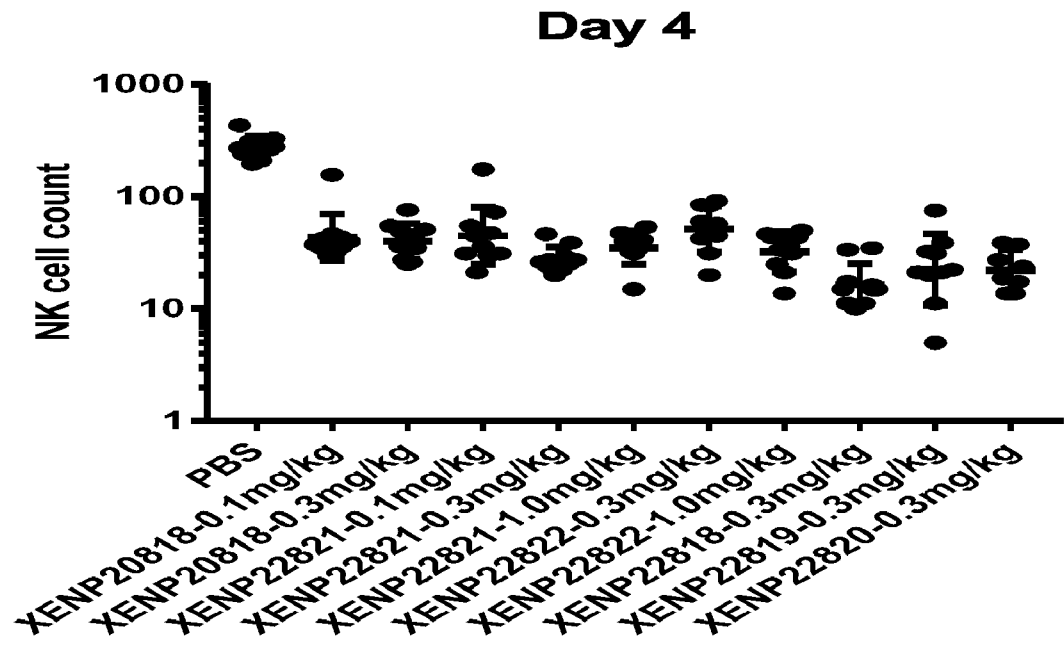


Figure 74B

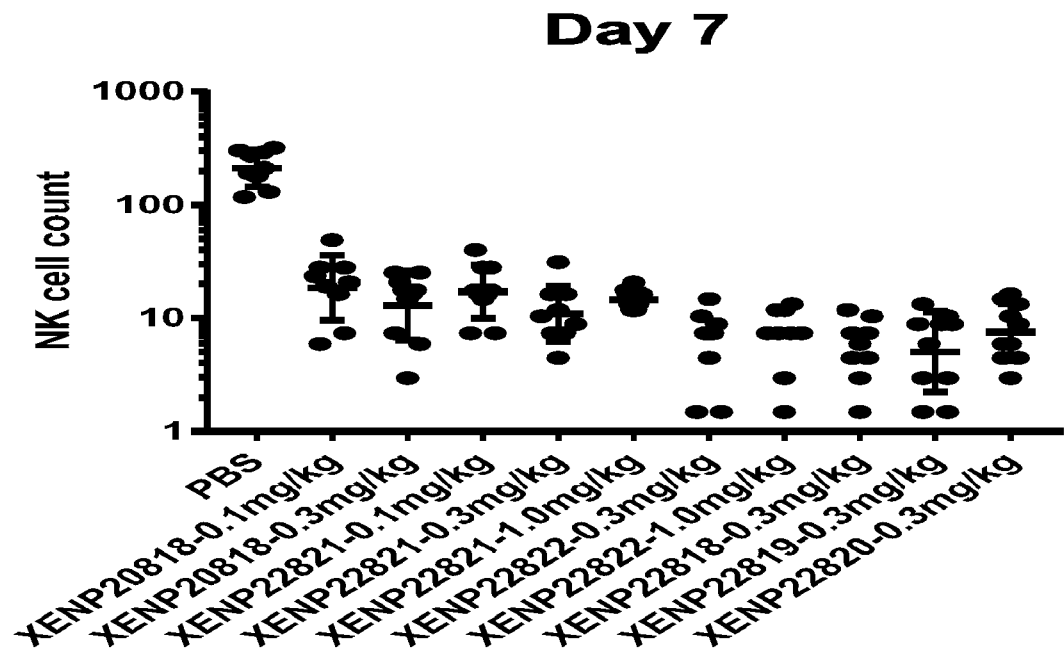


Figure 74C

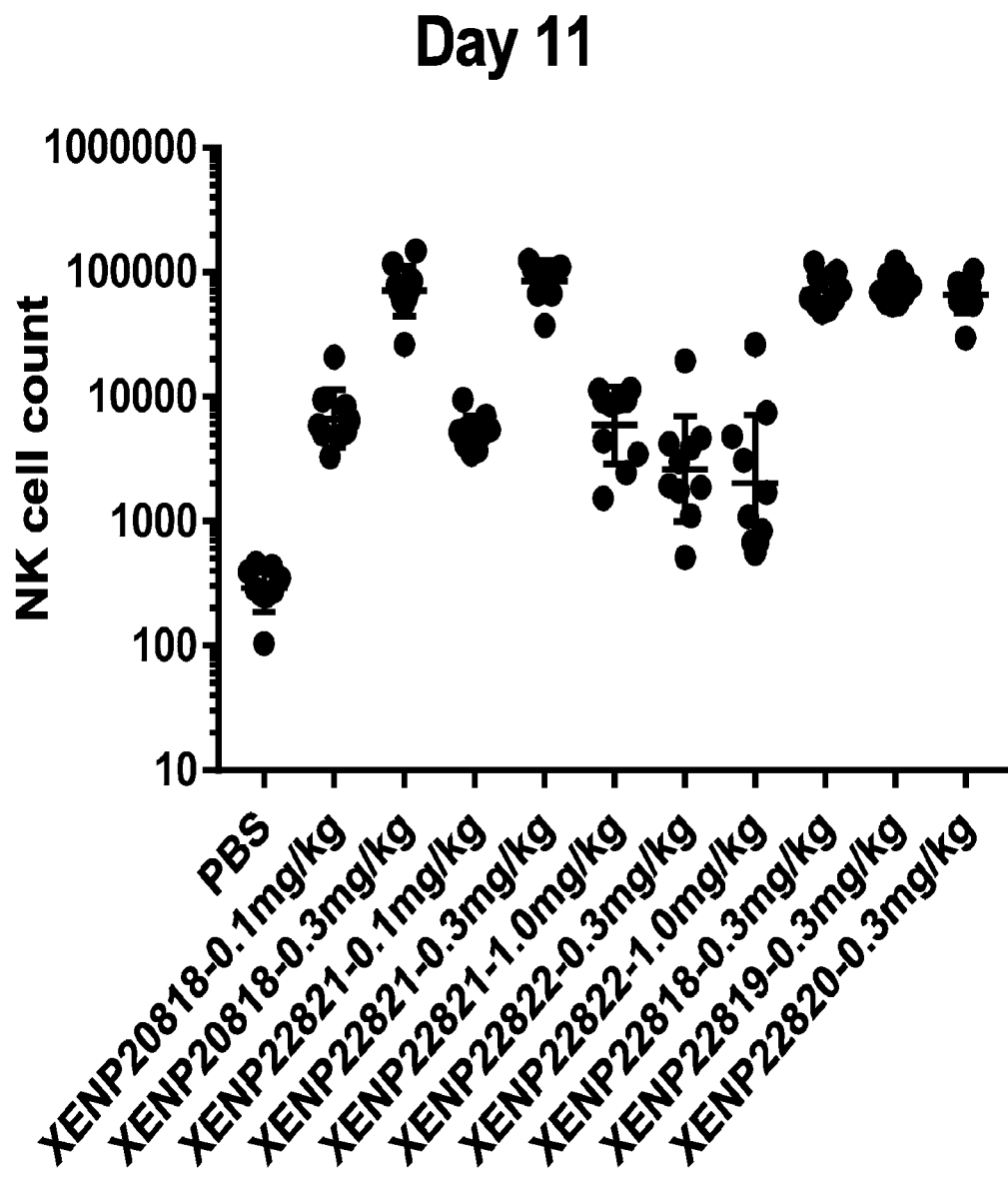


Figure 75A

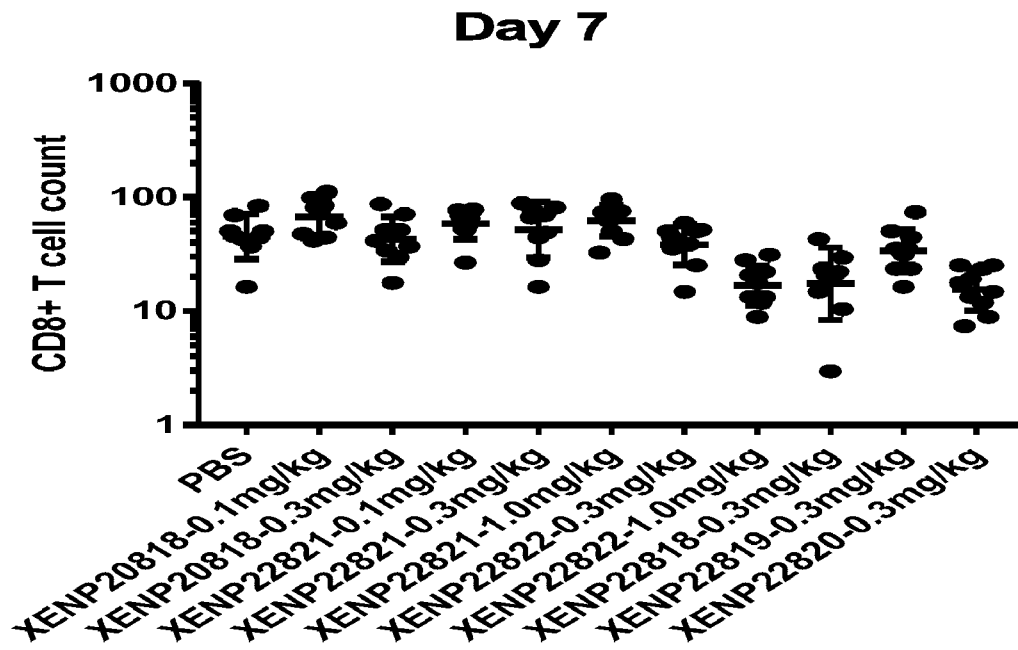


Figure 75B

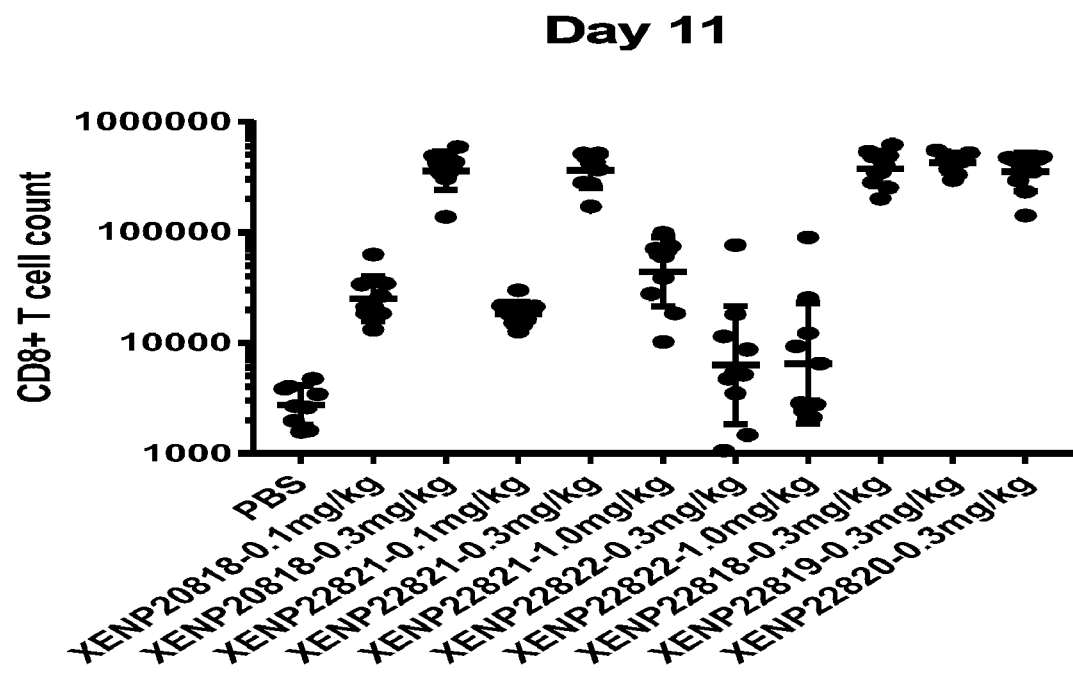


Figure 76A

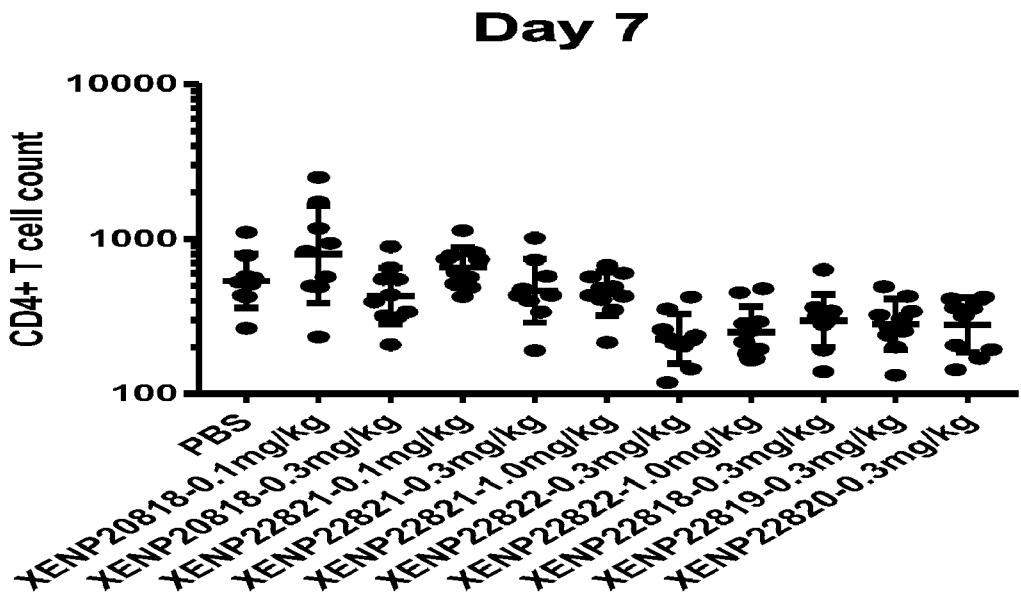


Figure 76B

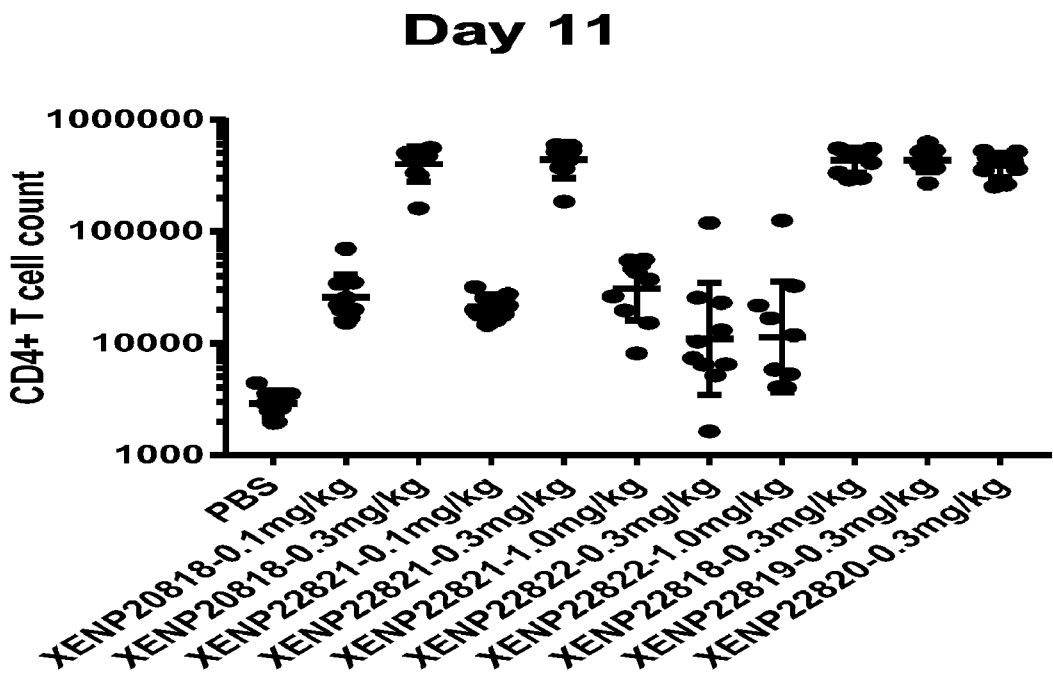
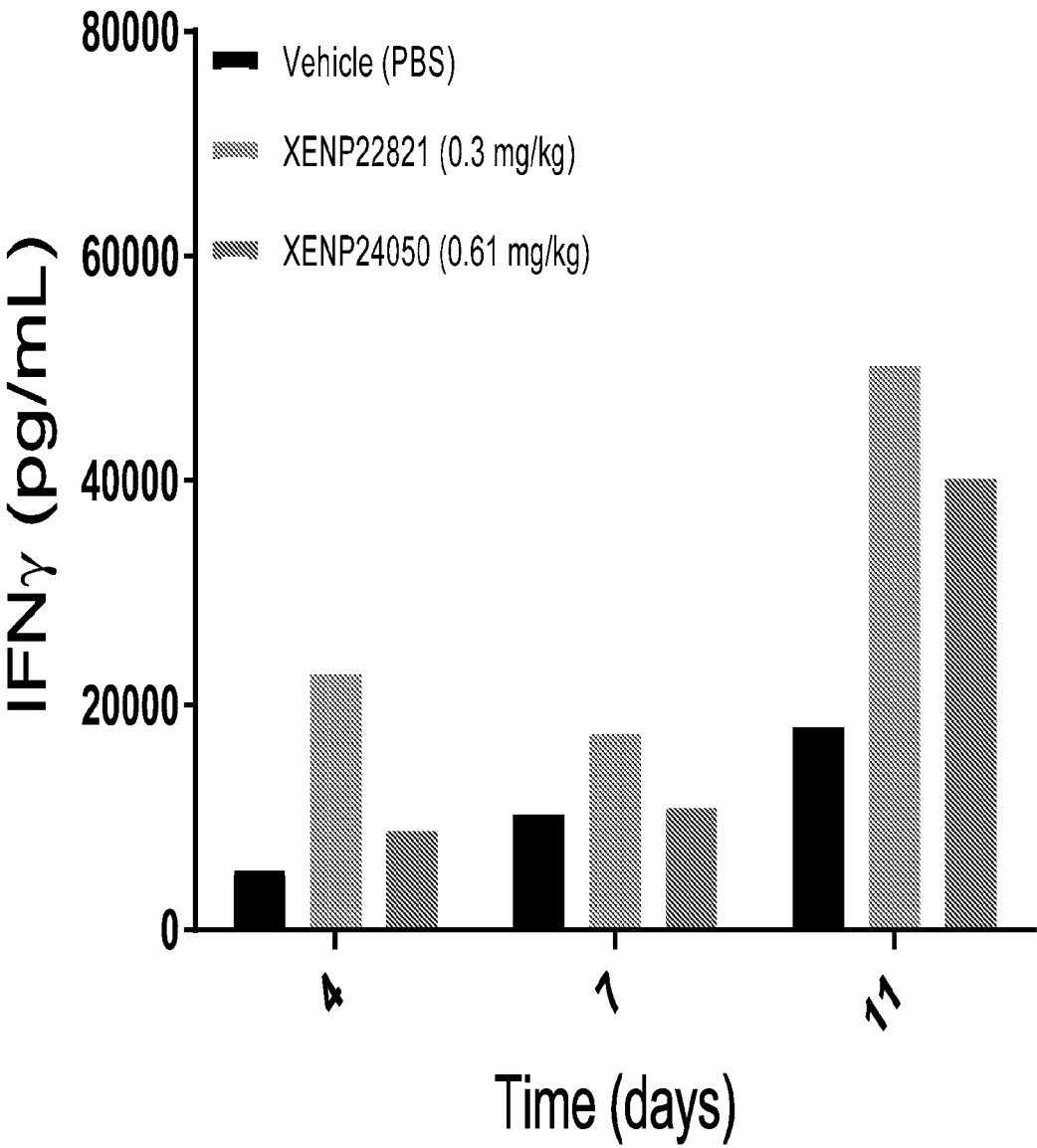


Figure 77



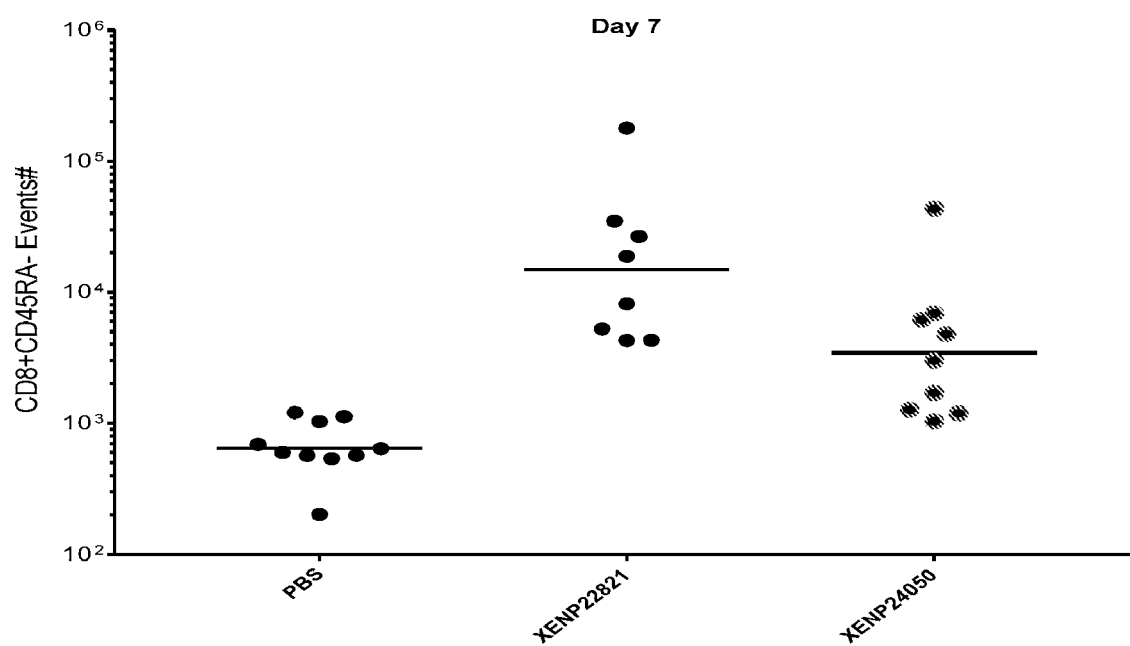
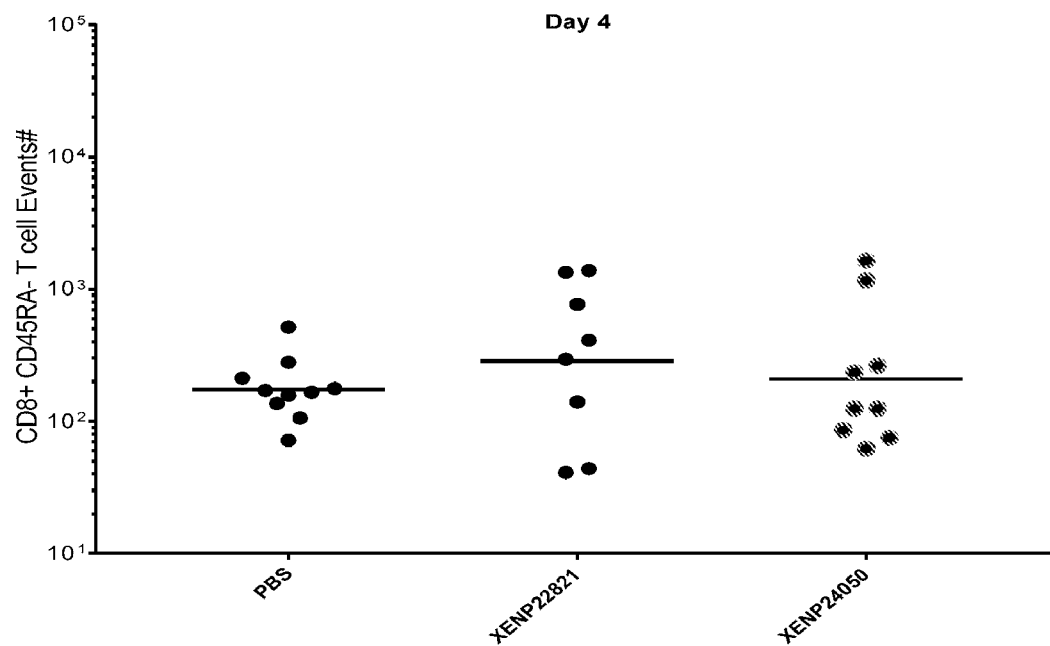


Figure 78C

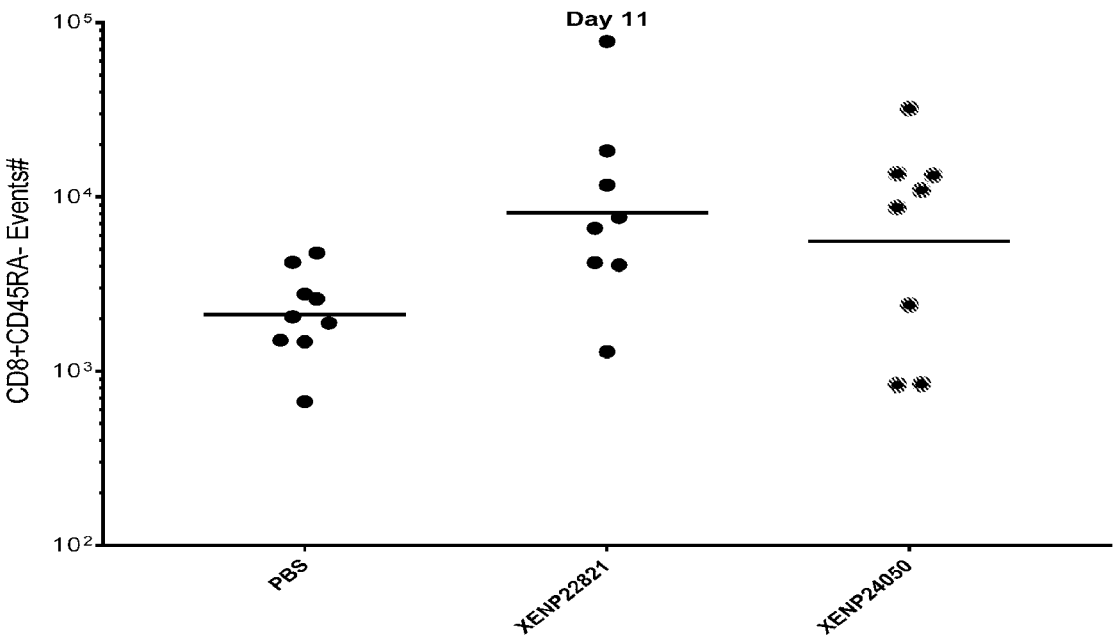


Figure 79A

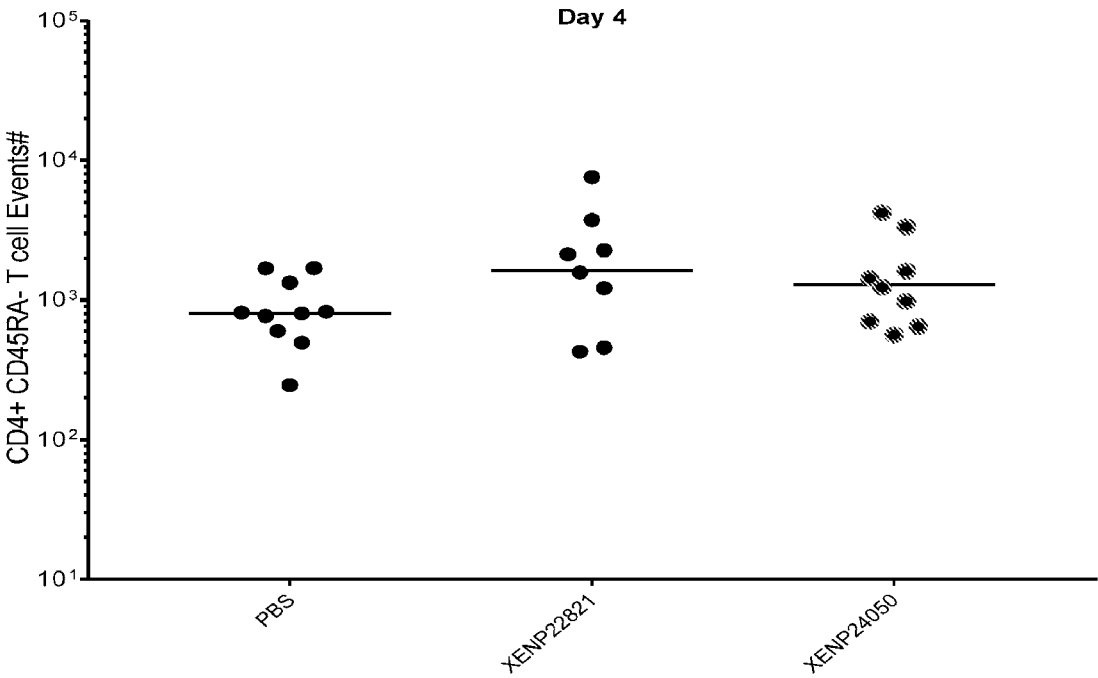


Figure 79B

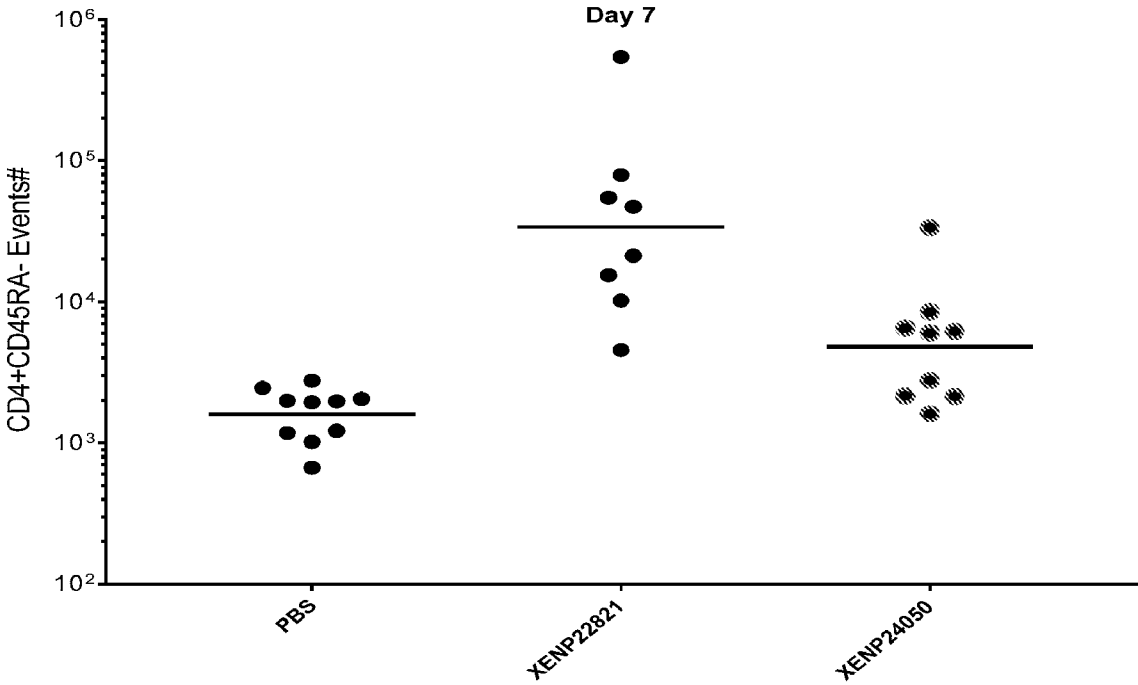


Figure 79C

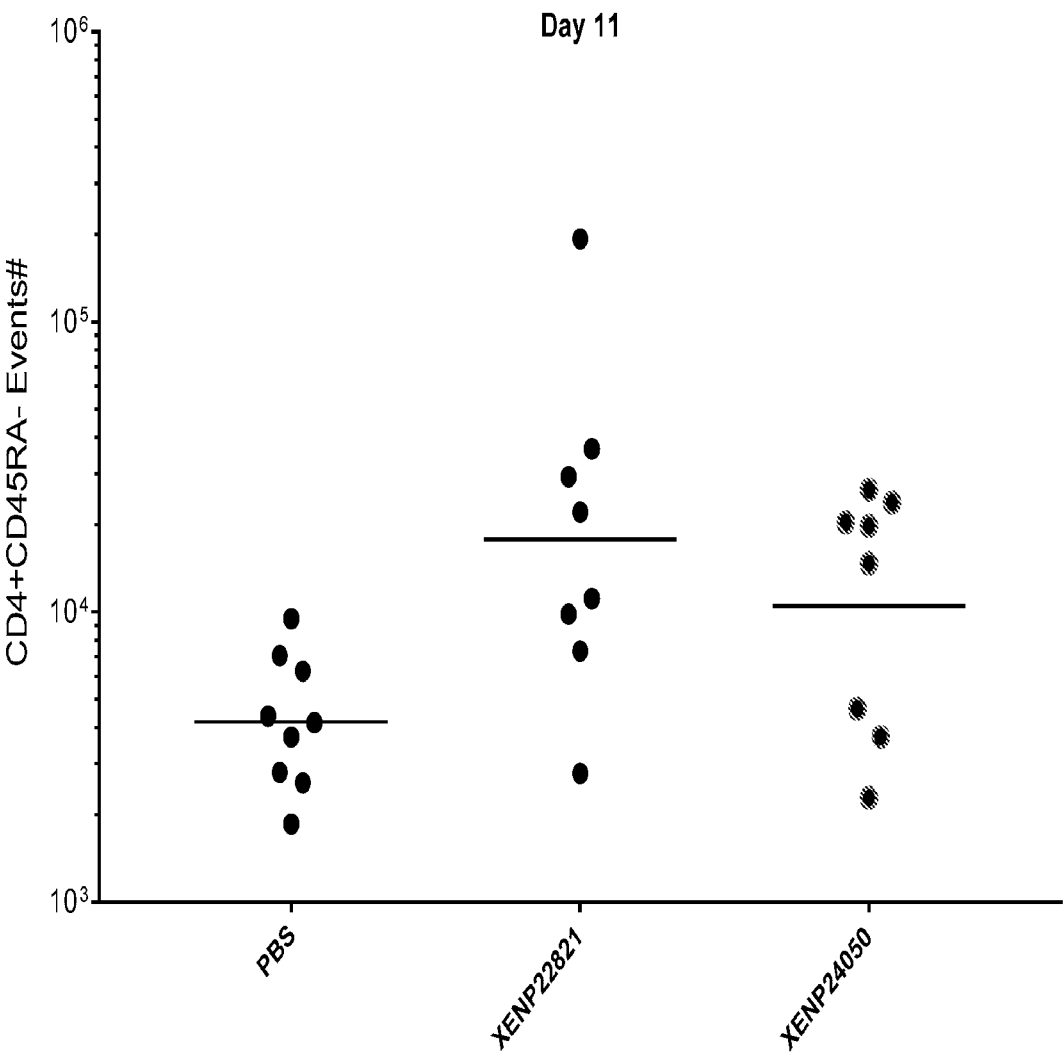


Figure 80A

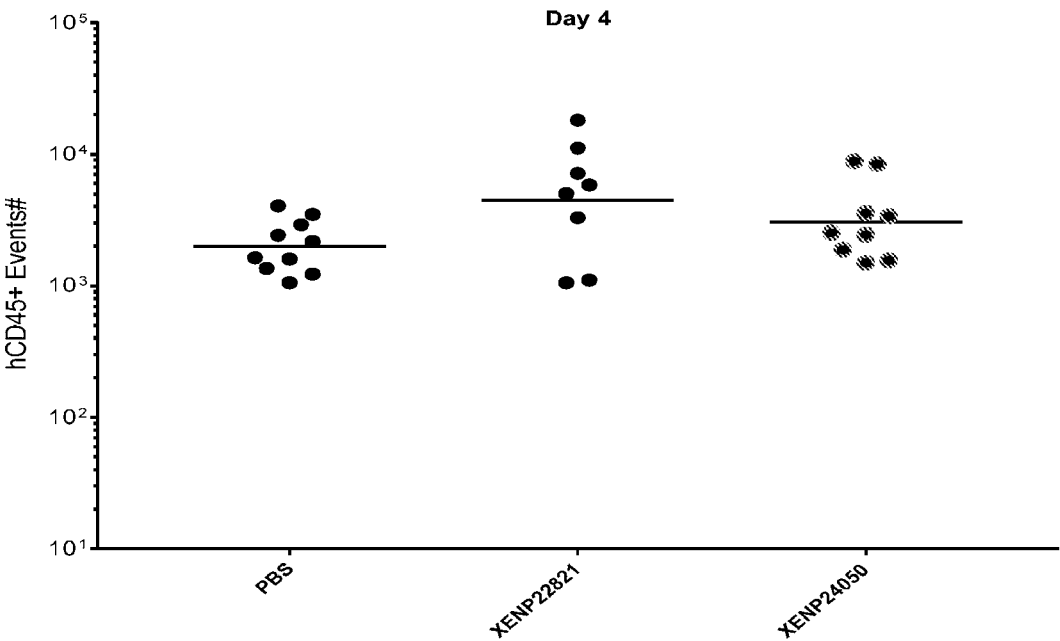


Figure 80B

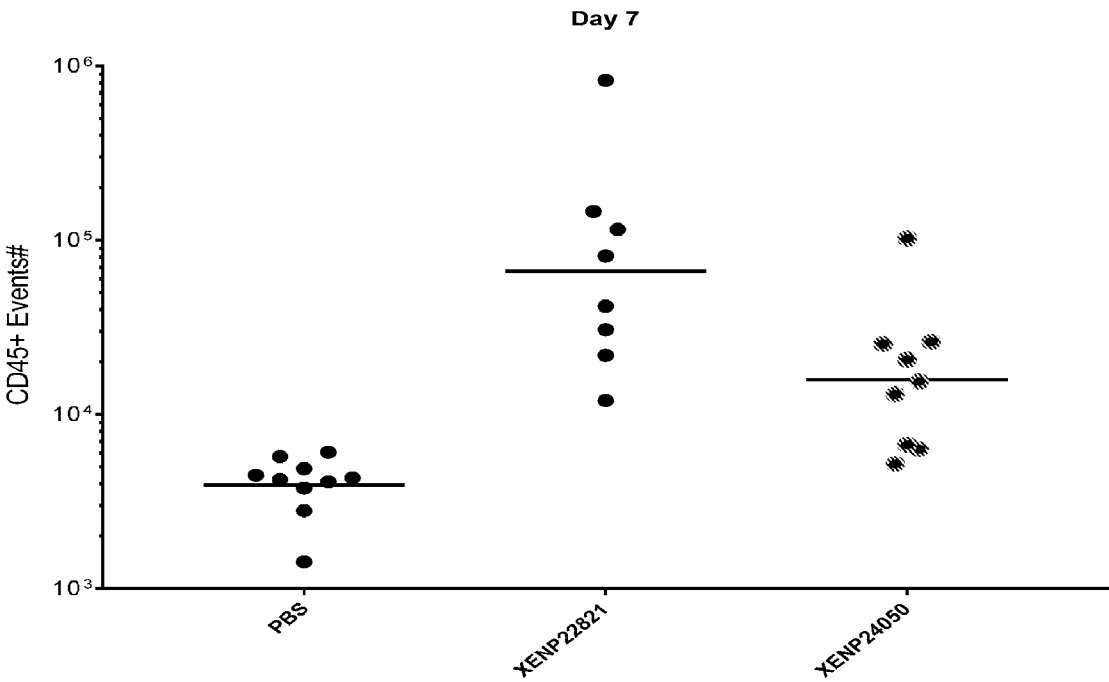


Figure 80C

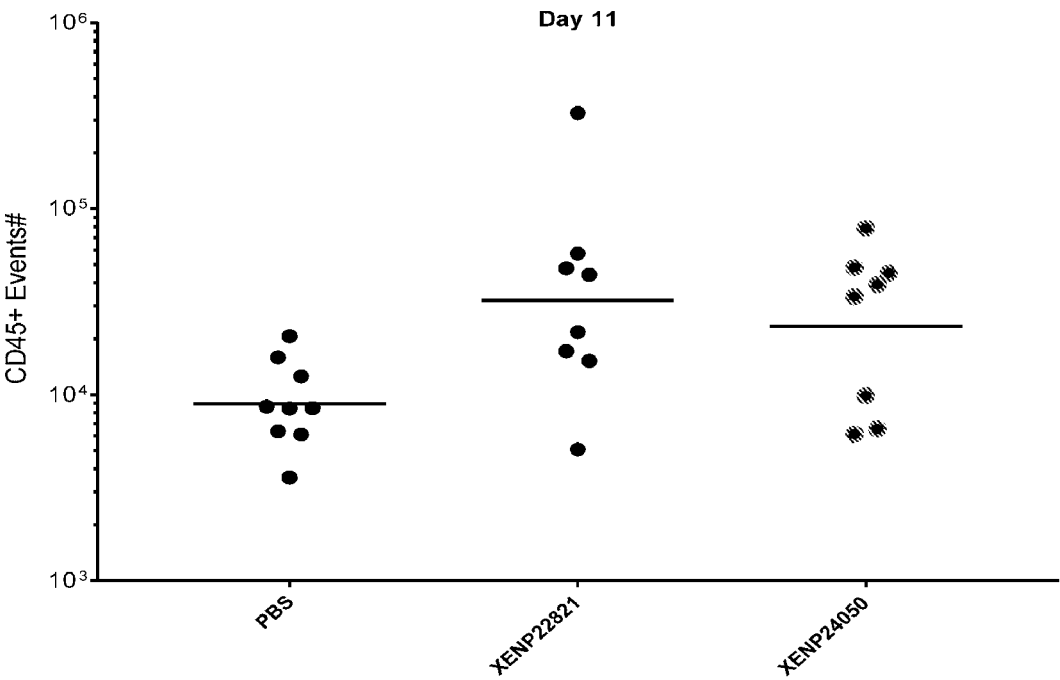


Figure 81A

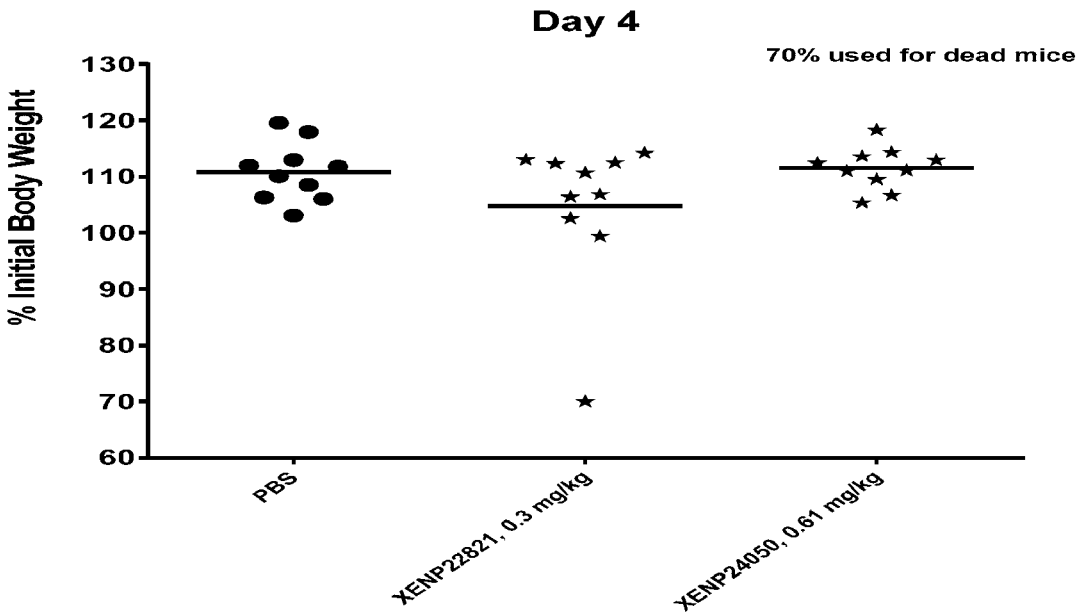


Figure 81B

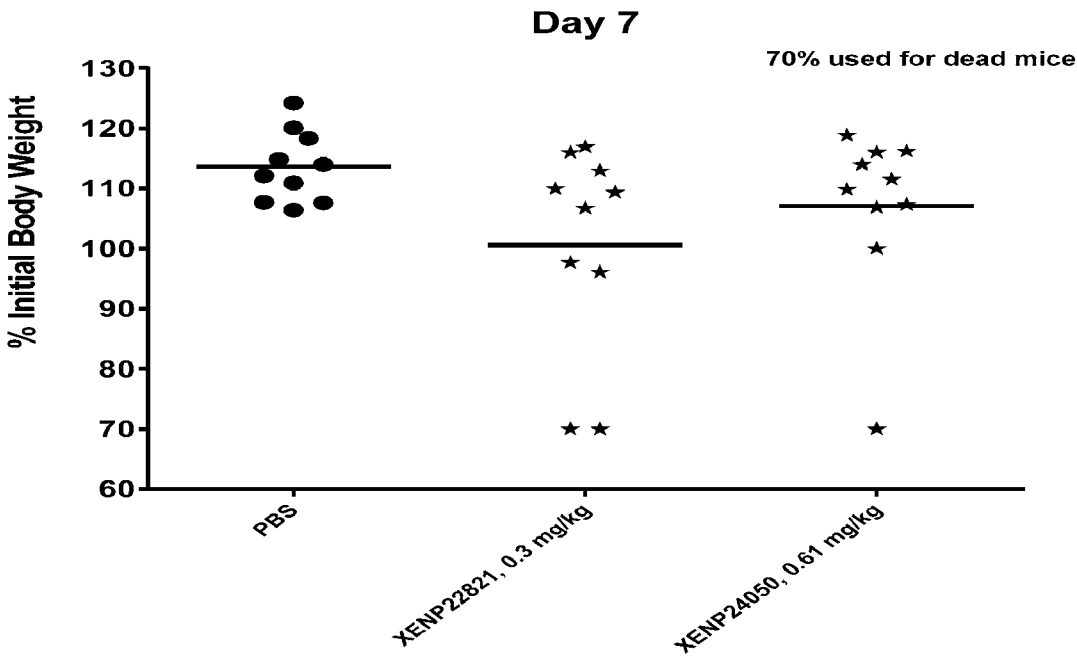


Figure 81C

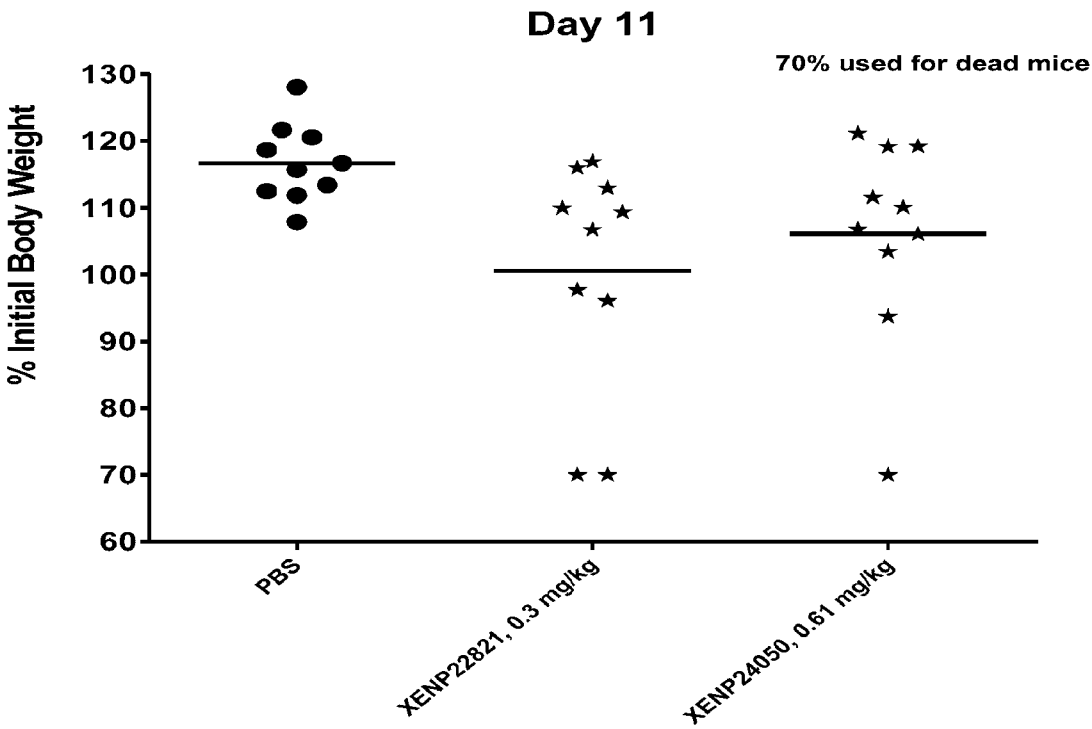


Figure 82A

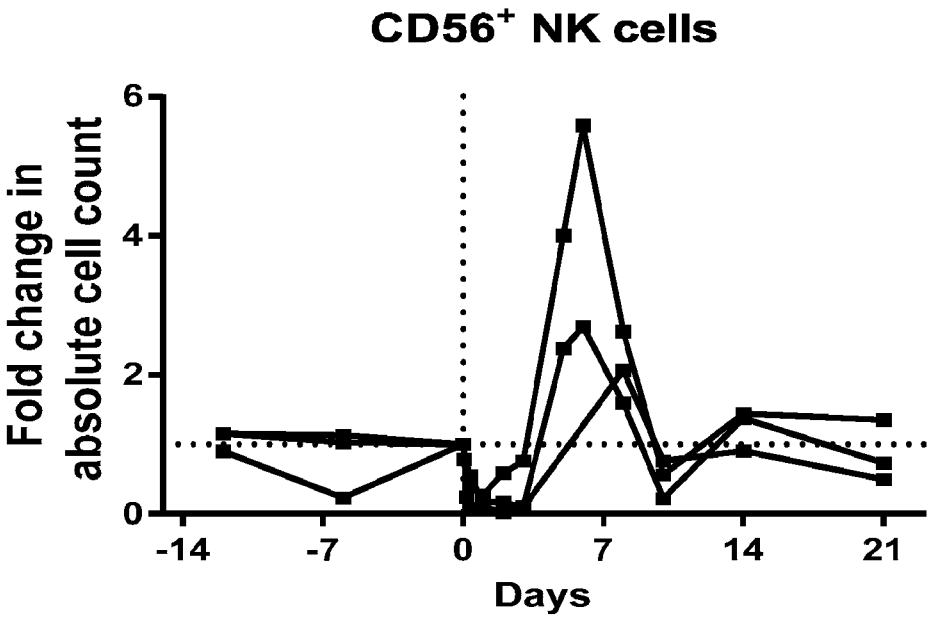


Figure 82B

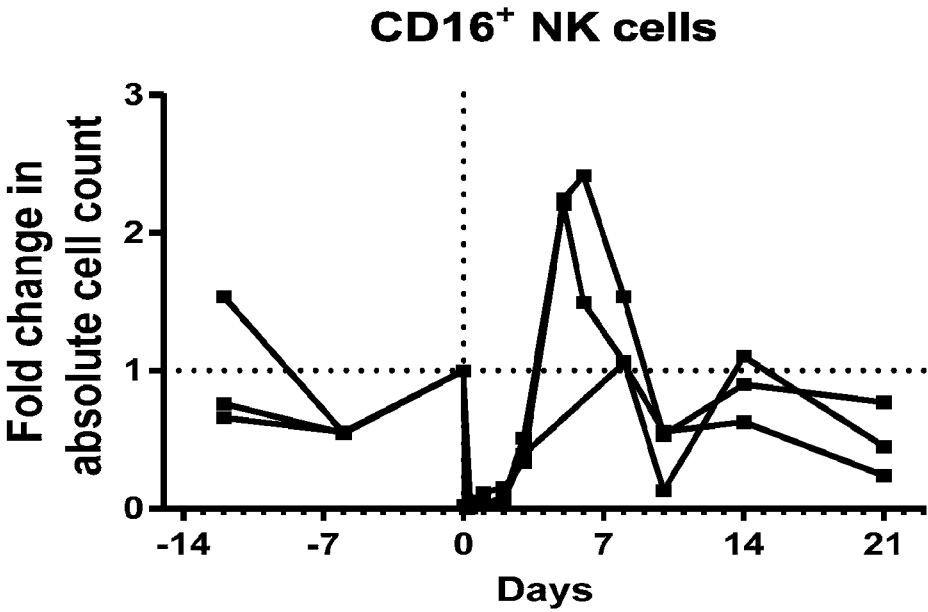


Figure 82C

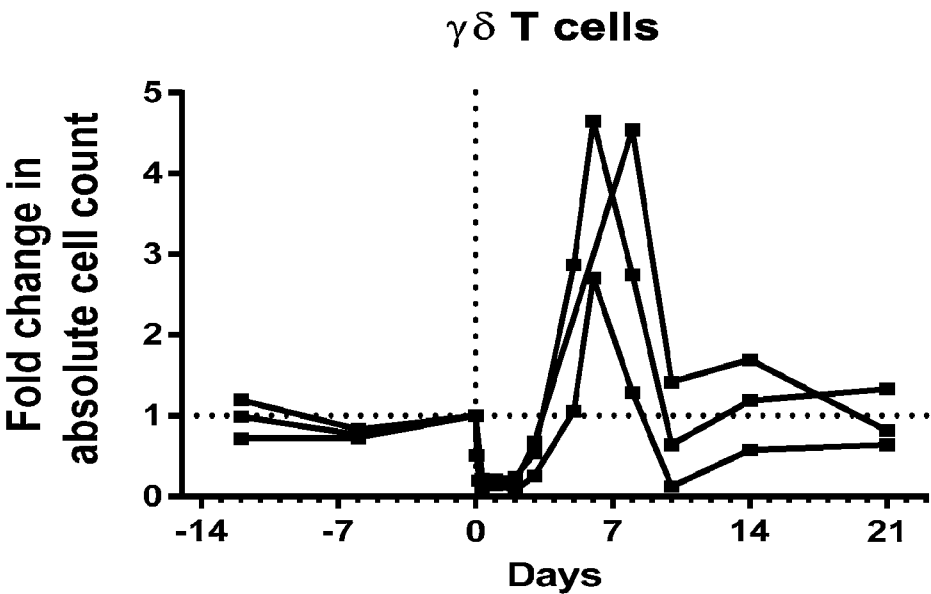


Figure 82D

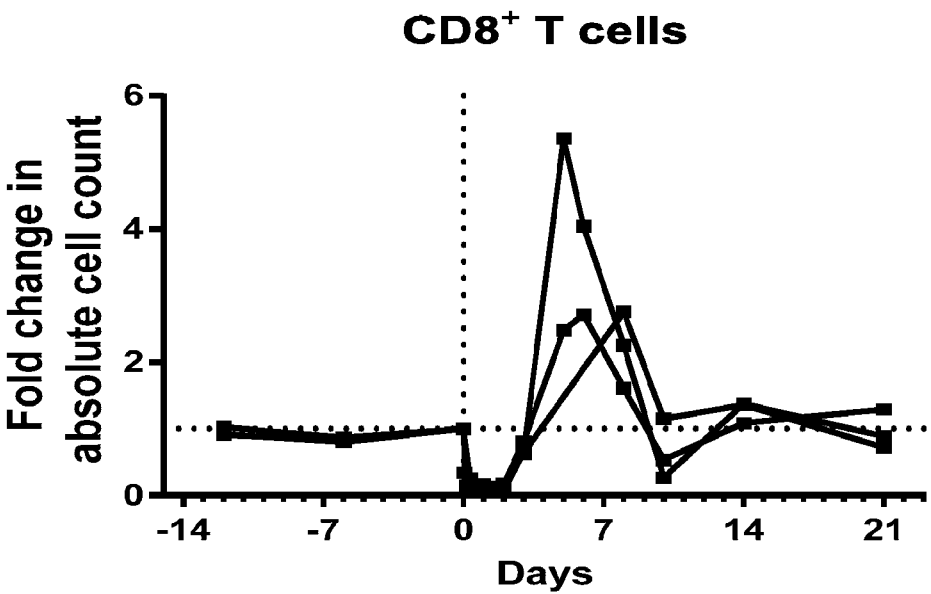


Figure 82E

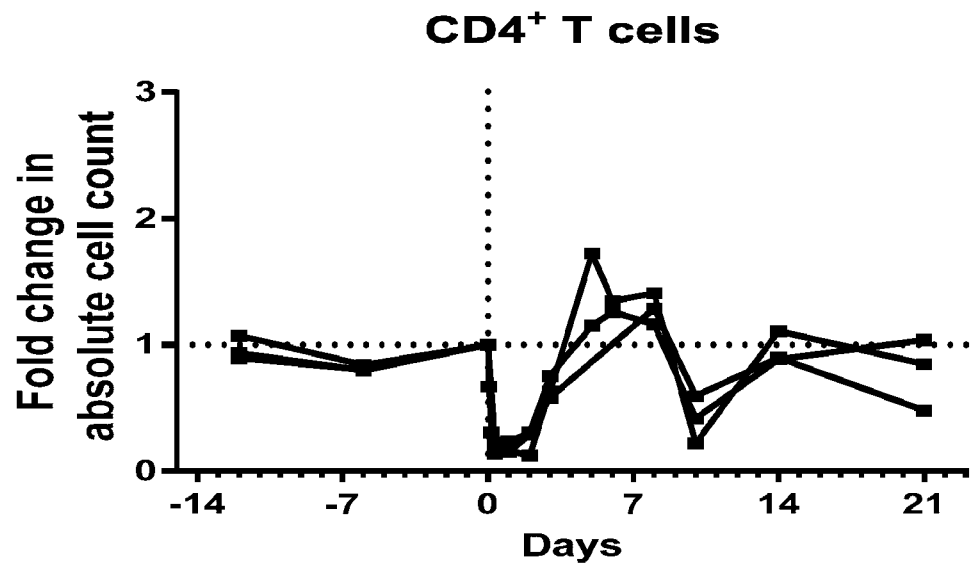


Figure 83A

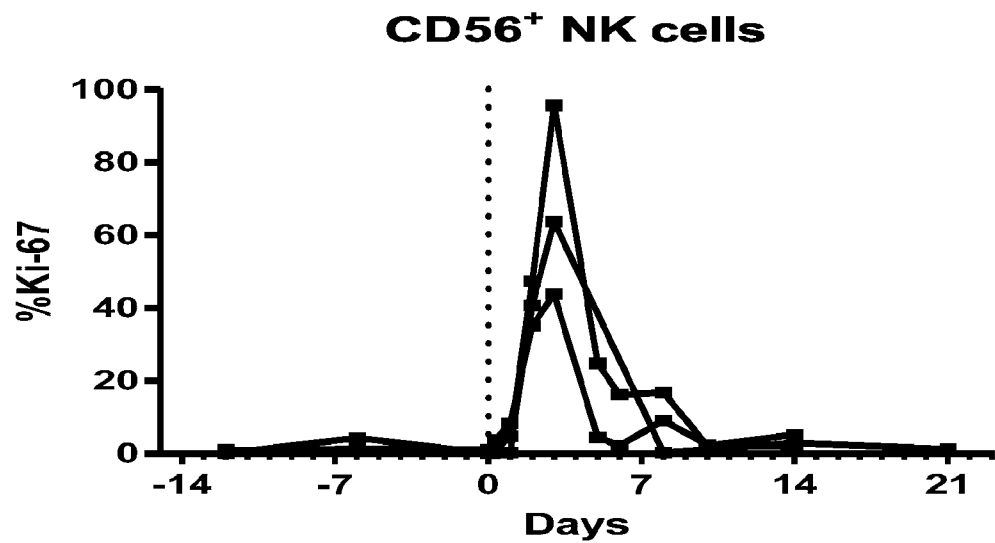


Figure 83B

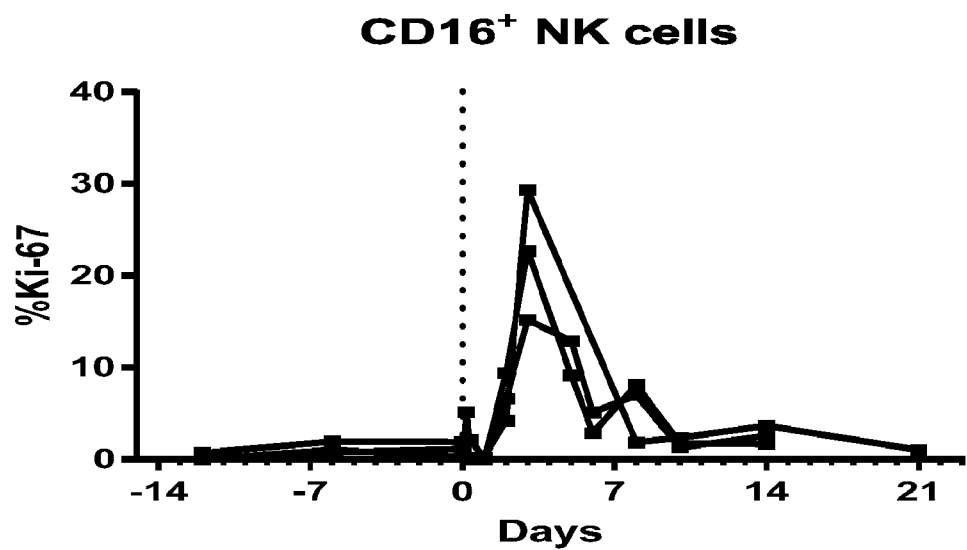


Figure 83C

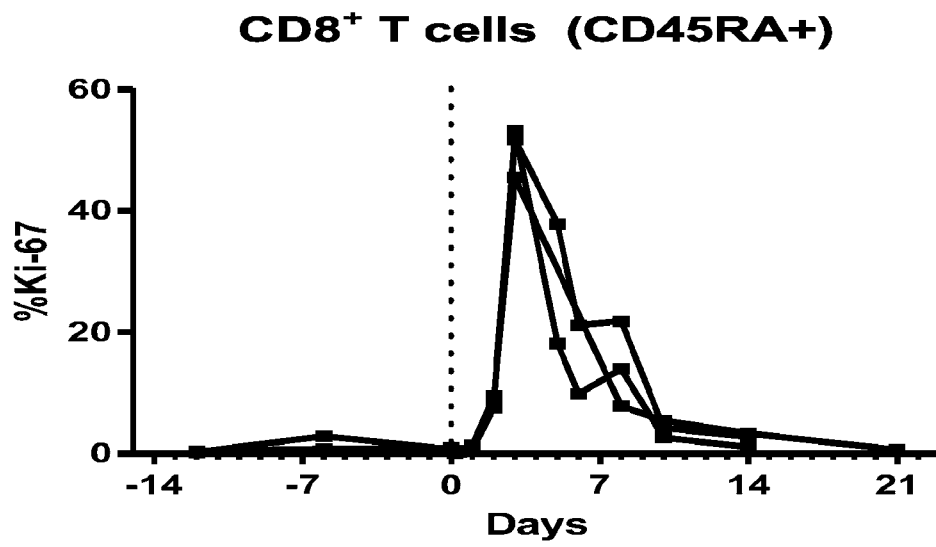


Figure 83D

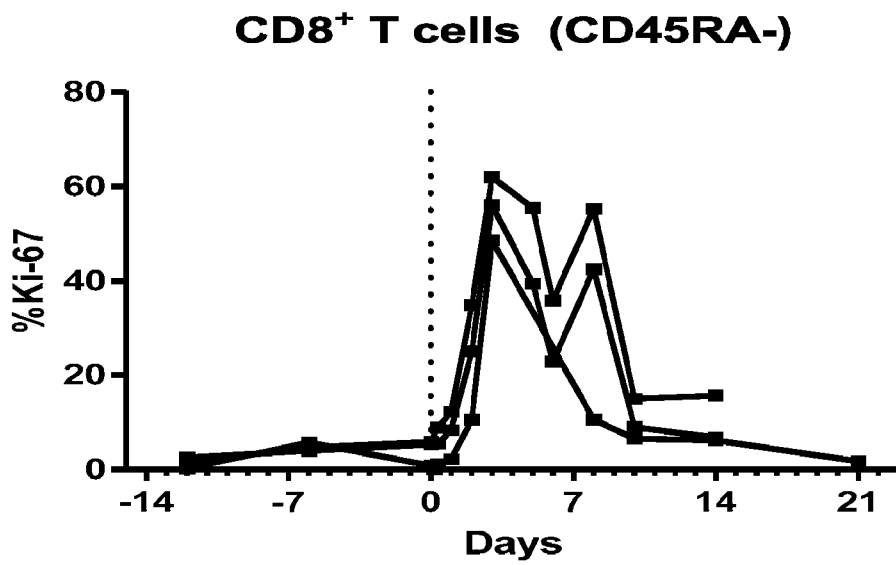


Figure 83E

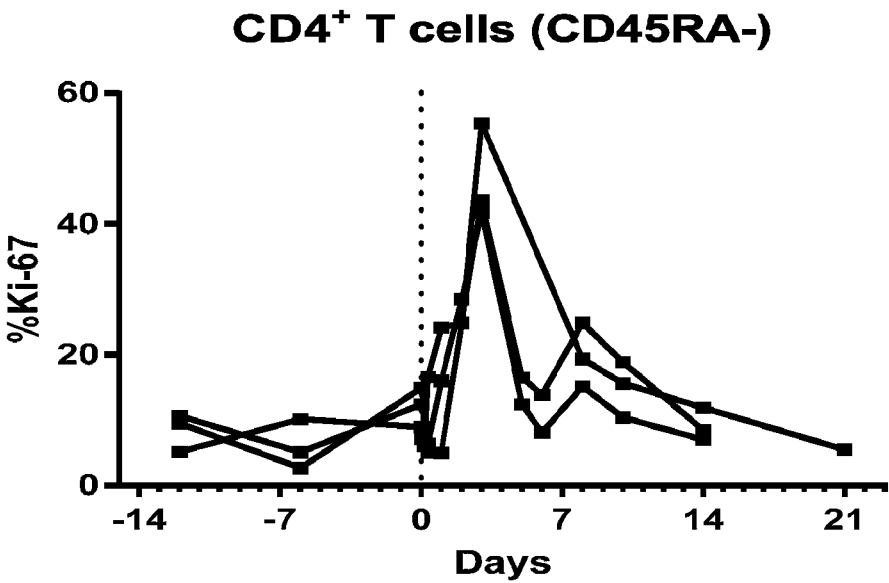


Figure 84A

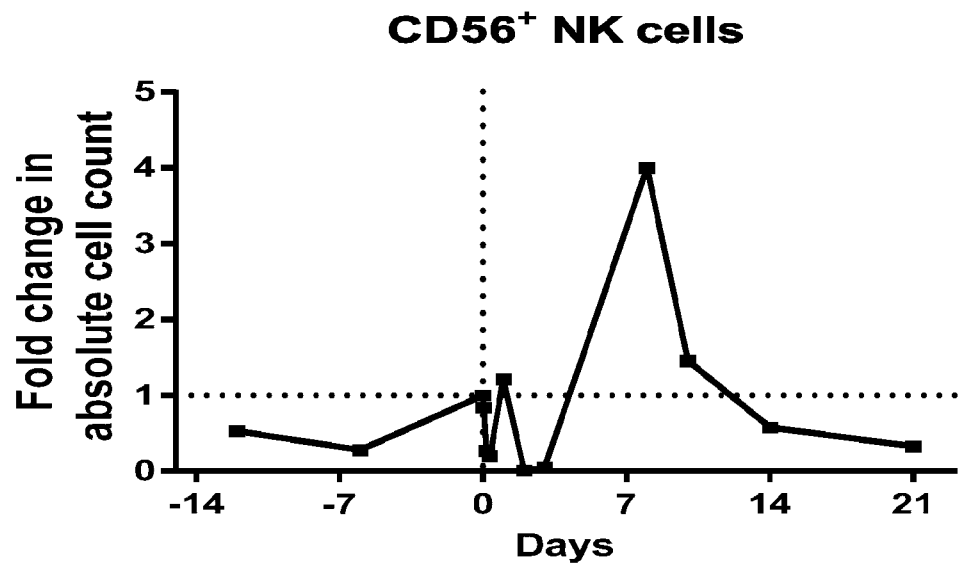


Figure 84B

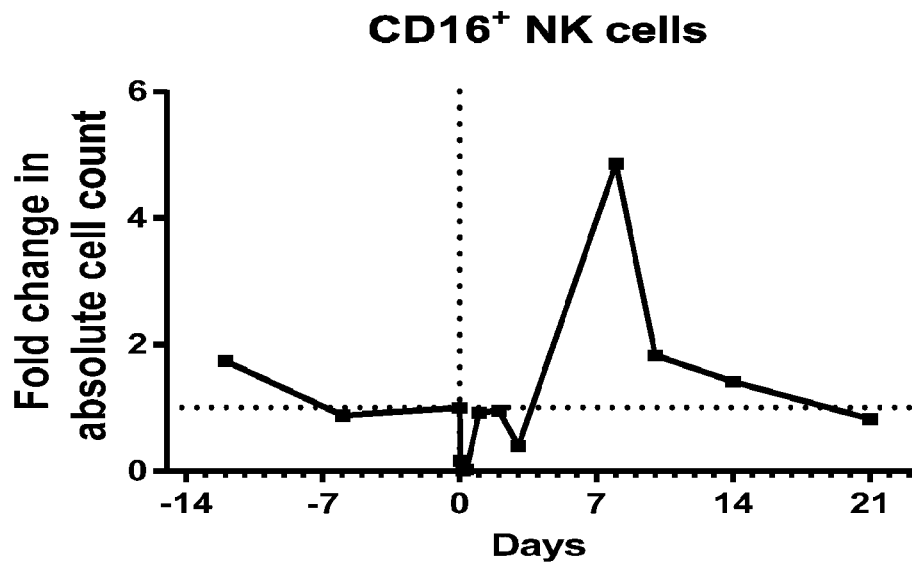


Figure 84C

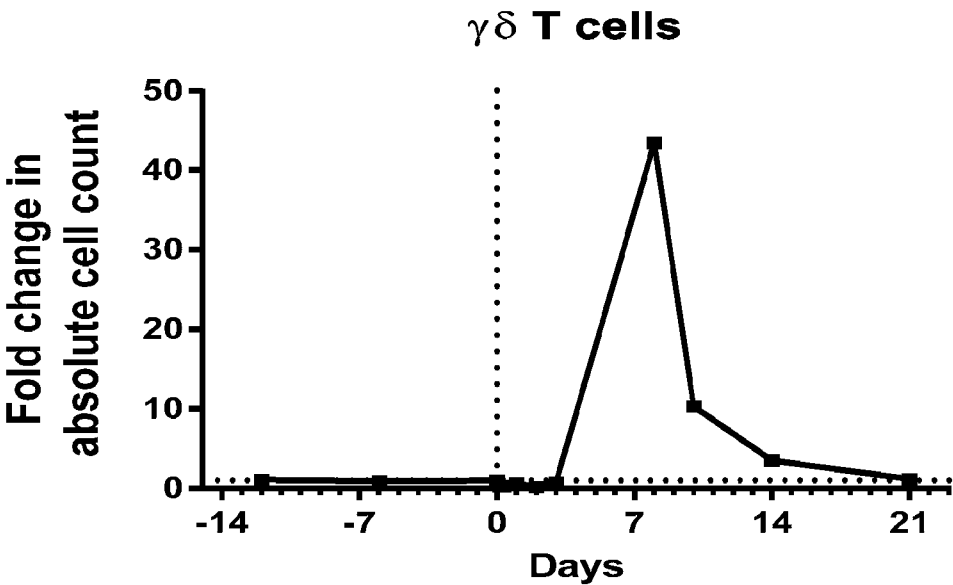


Figure 84D

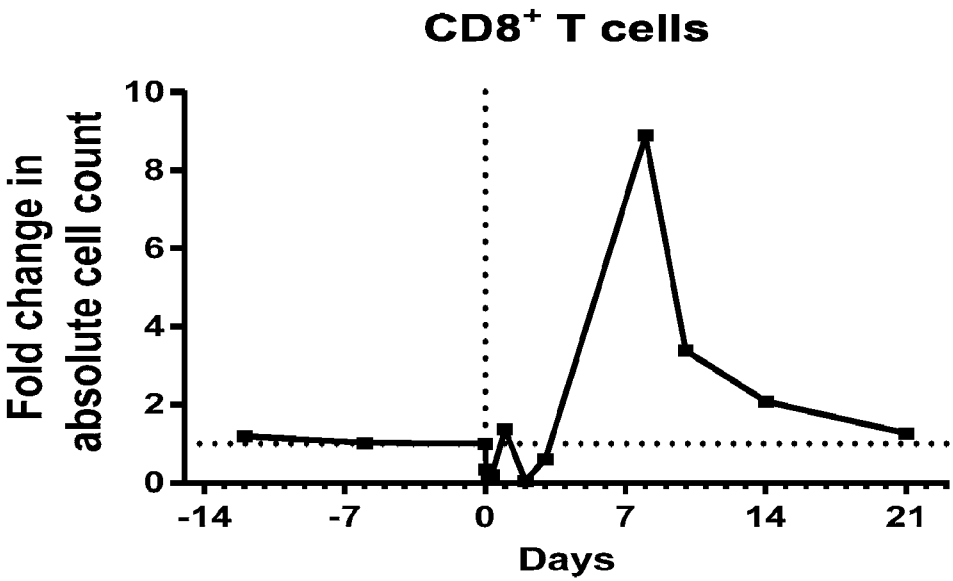


Figure 84E

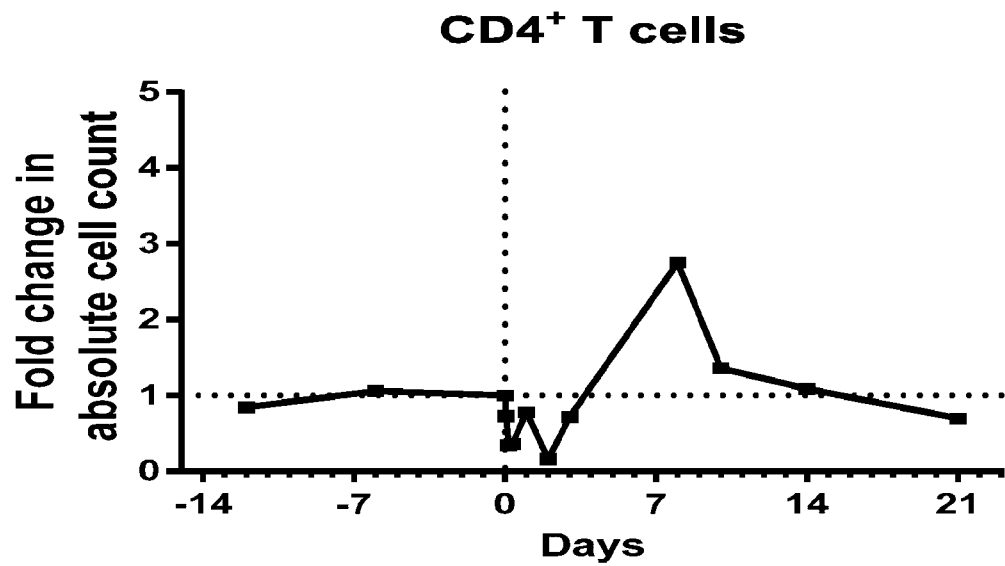


Figure 85A

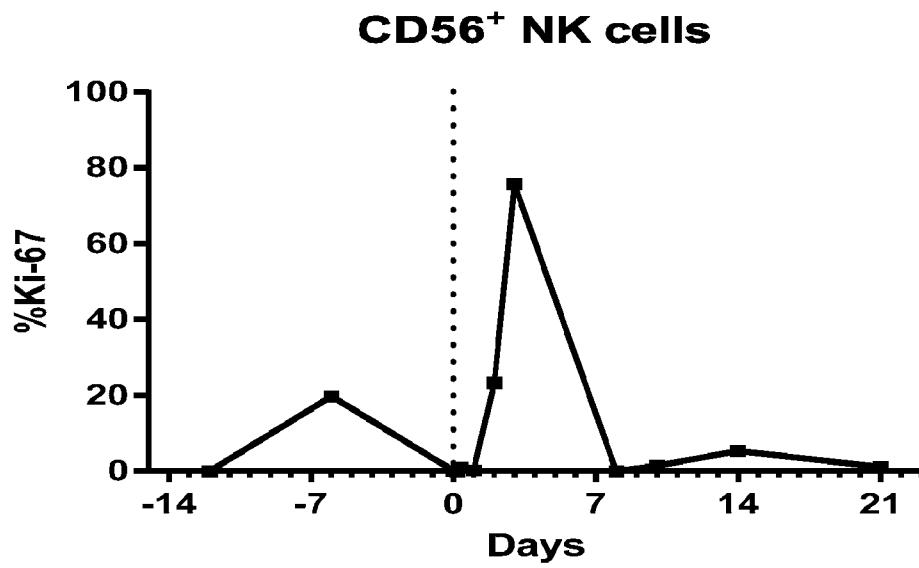


Figure 85B

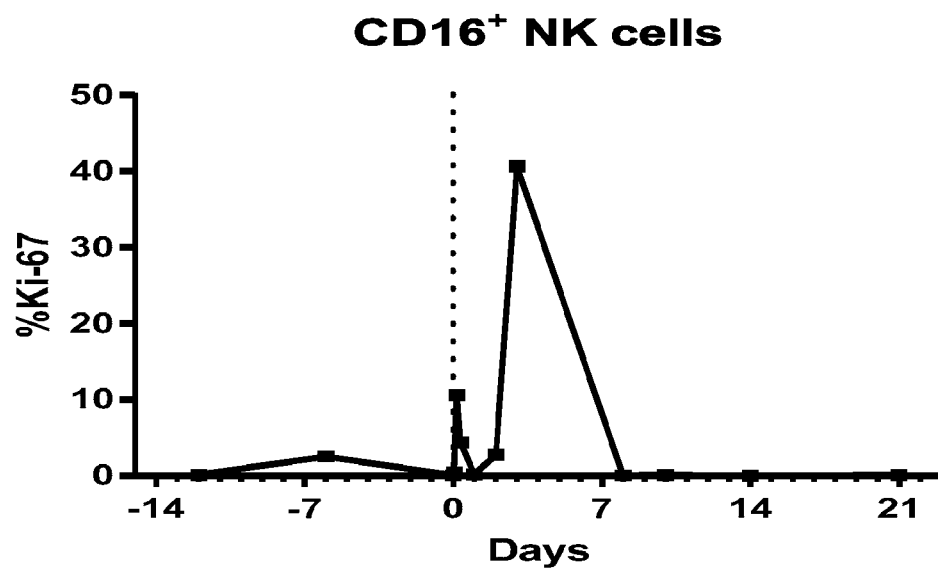


Figure 85C

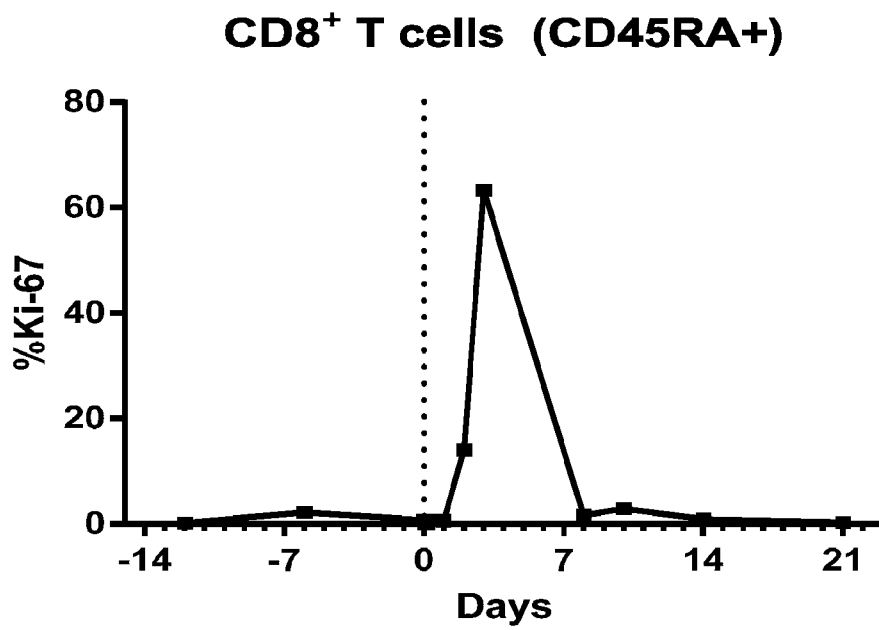


Figure 85D

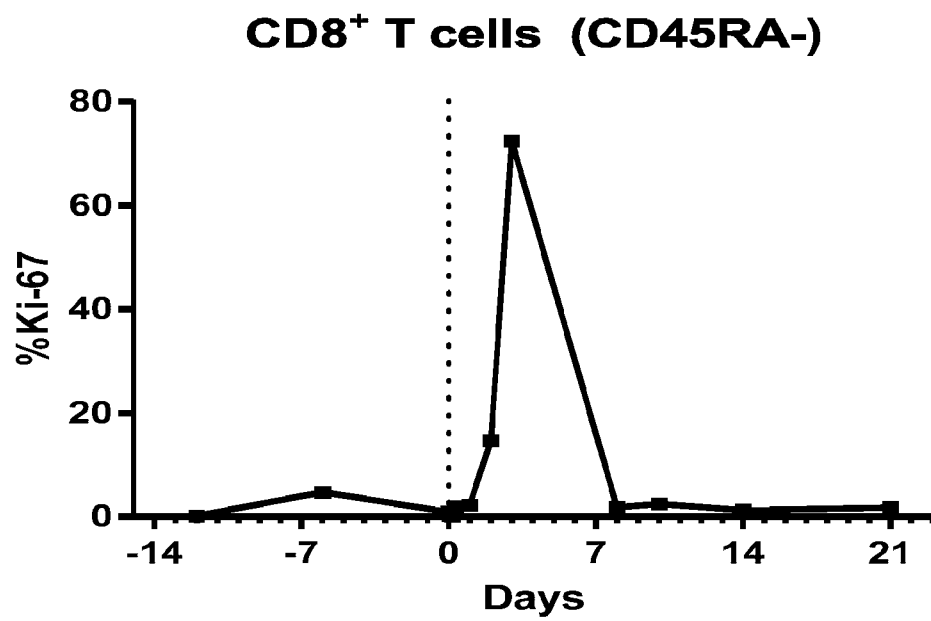


Figure 85E

CD4⁺ T cells (CD45RA-)

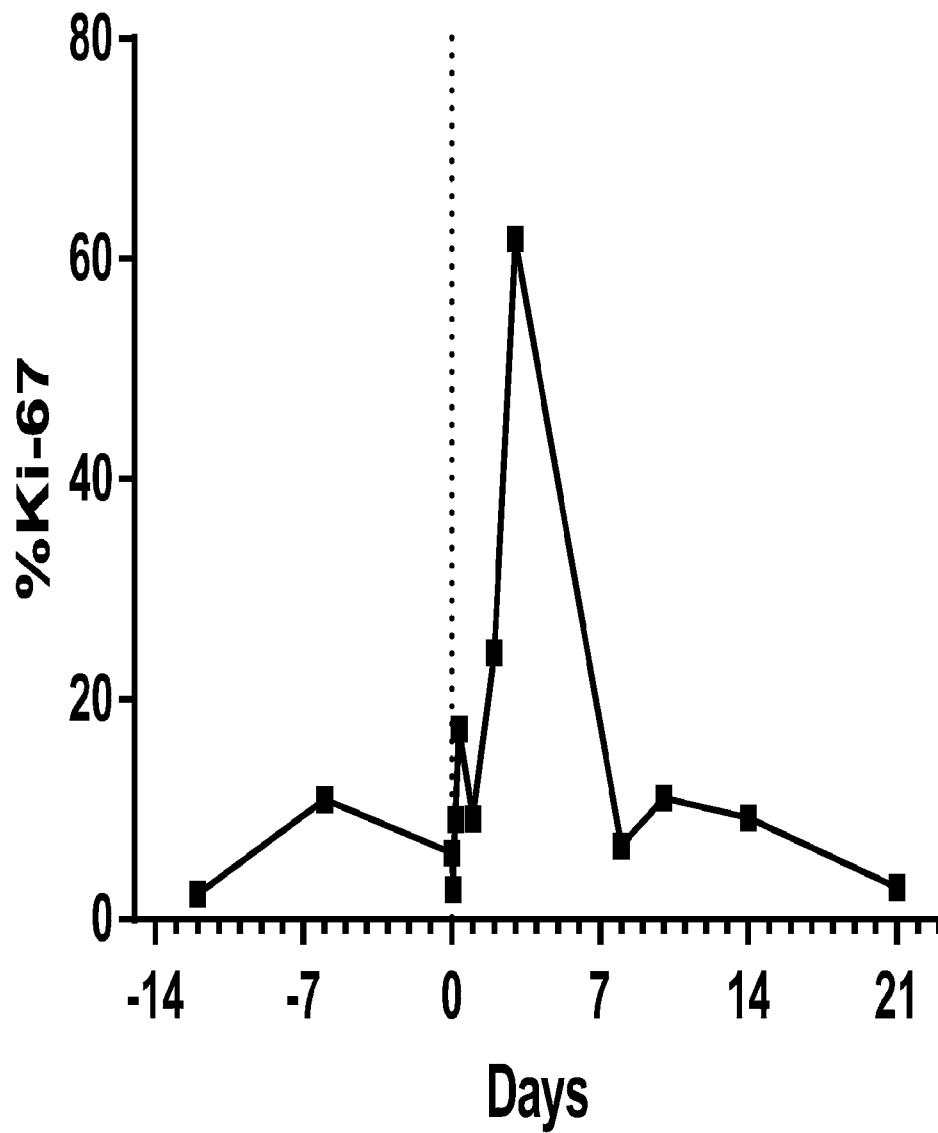


Figure 86A

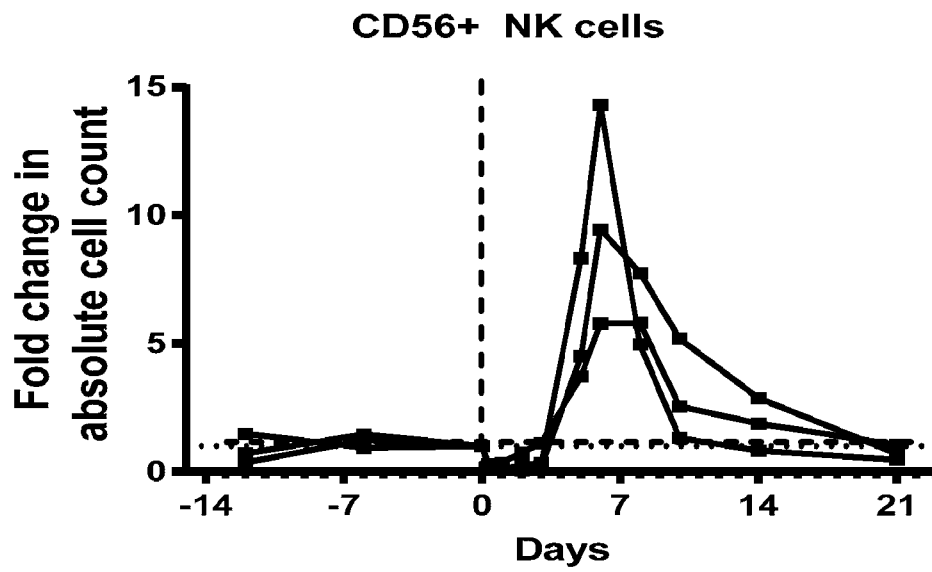


Figure 86B

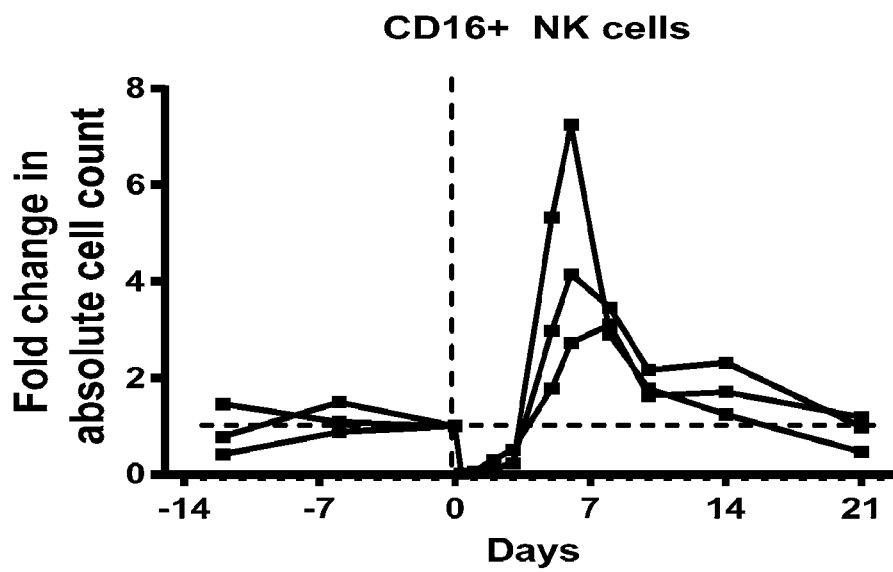


Figure 86C

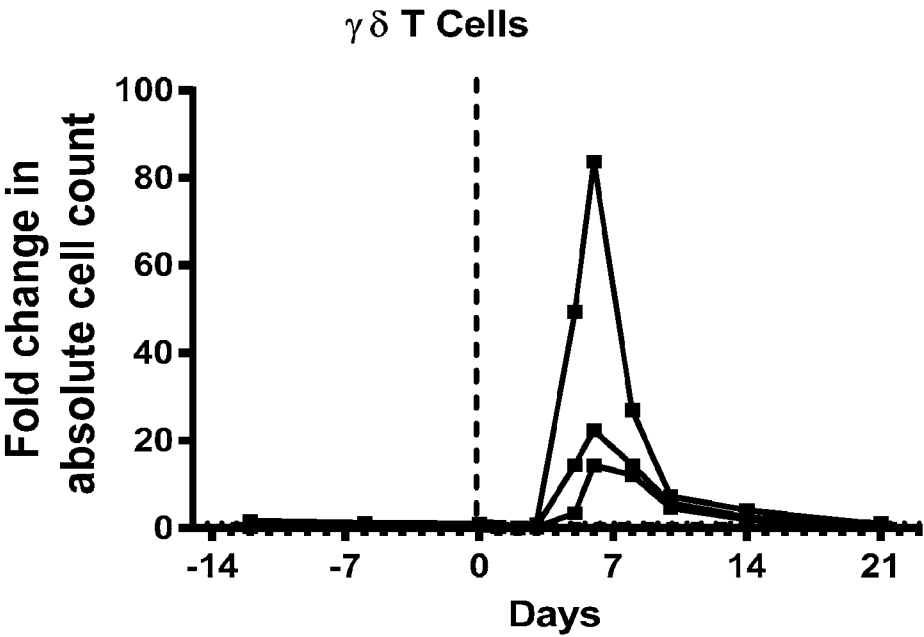


Figure 86D

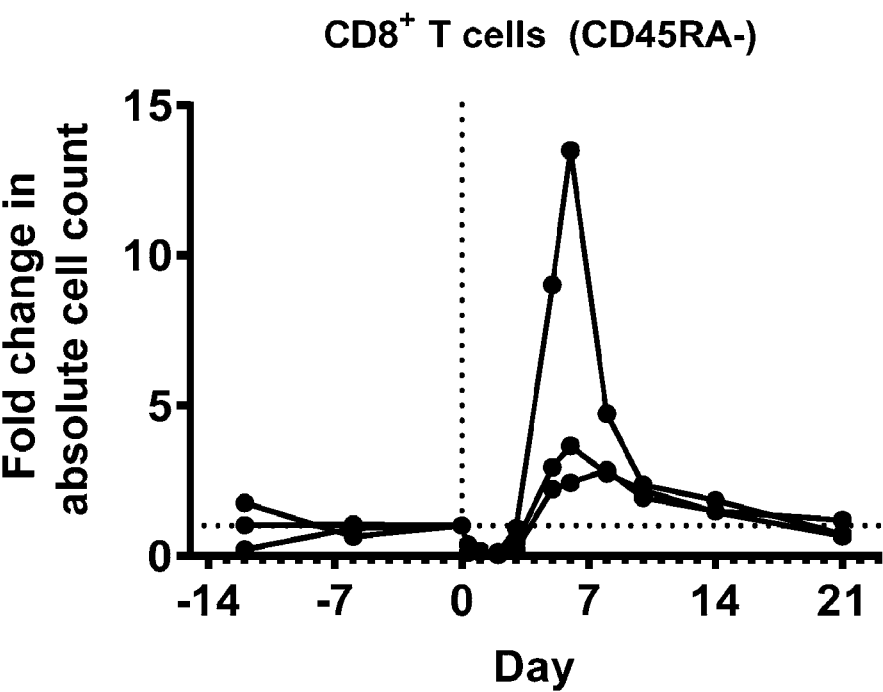


Figure 86E

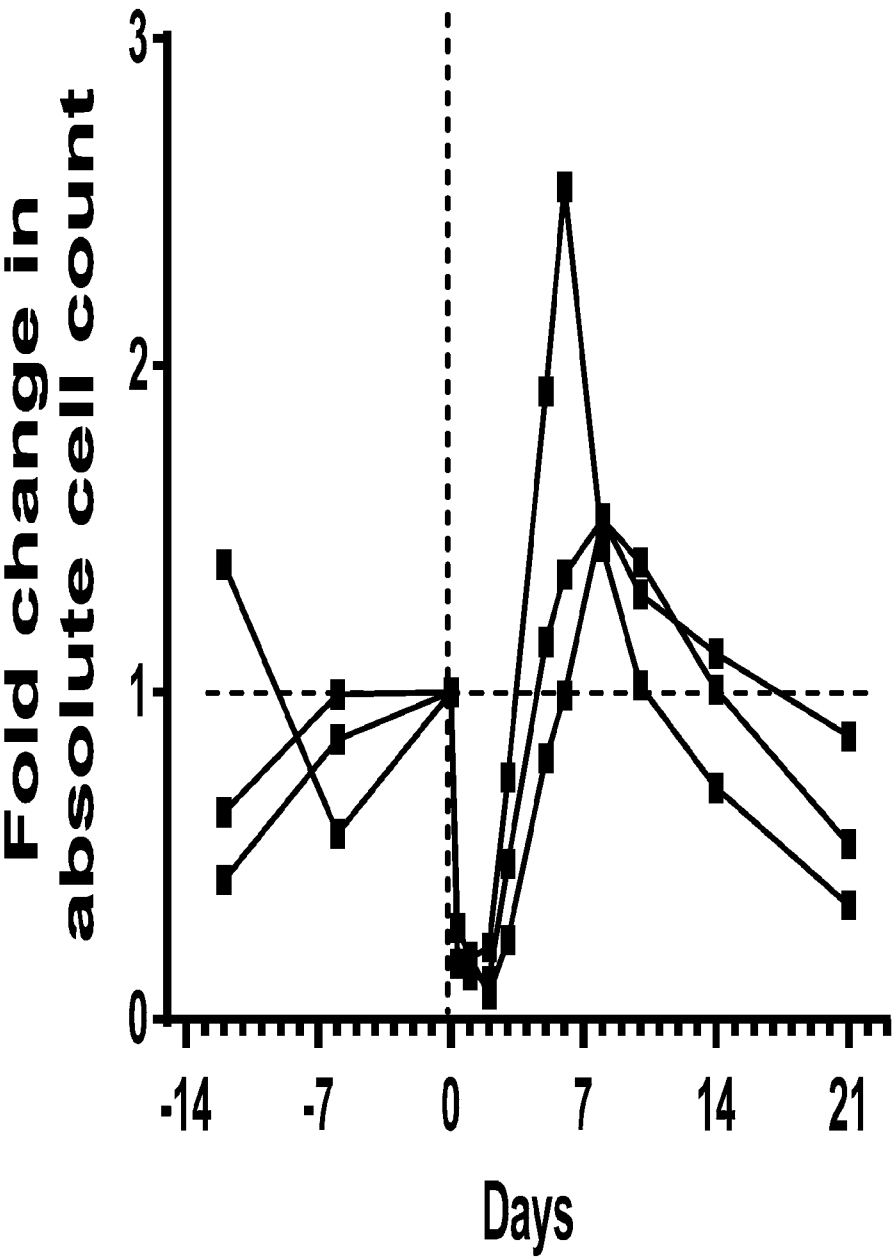


Figure 87A

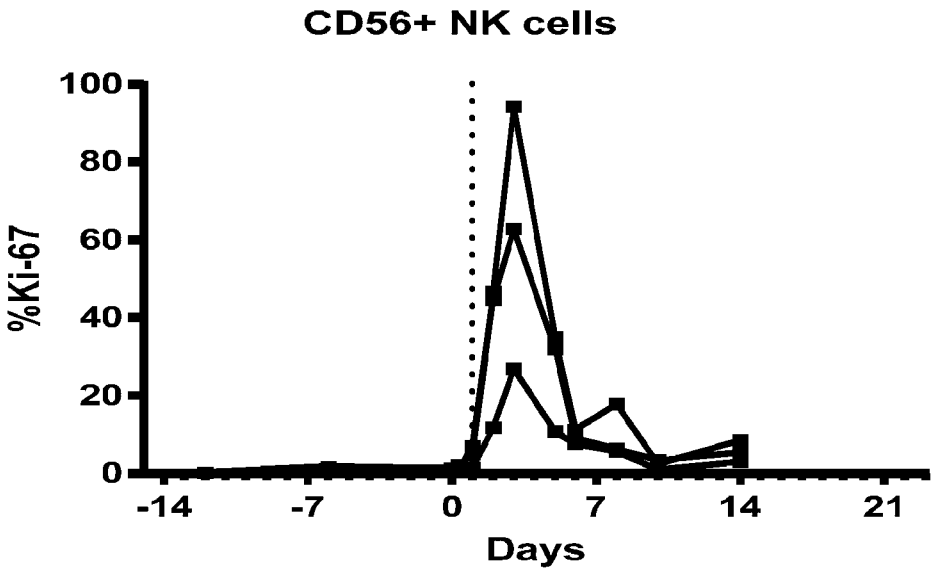


Figure 87B

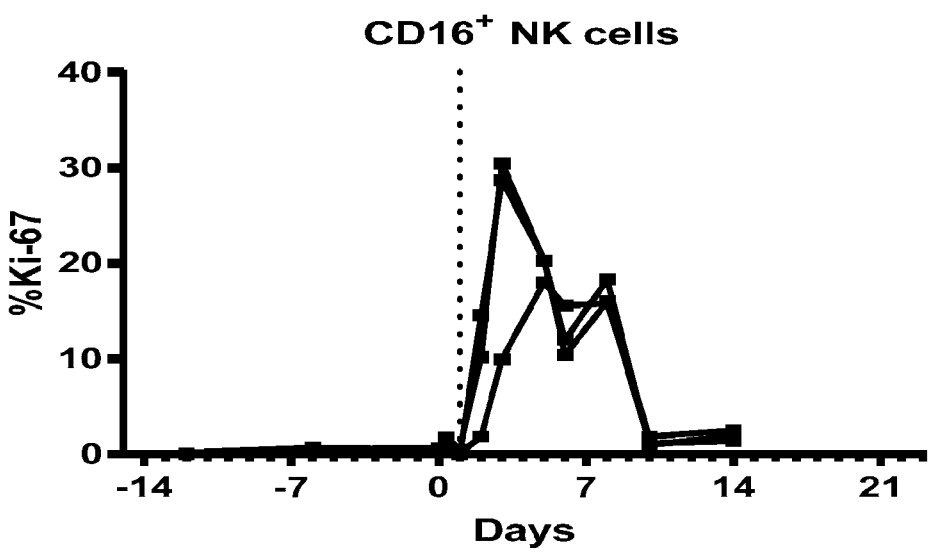


Figure 87C

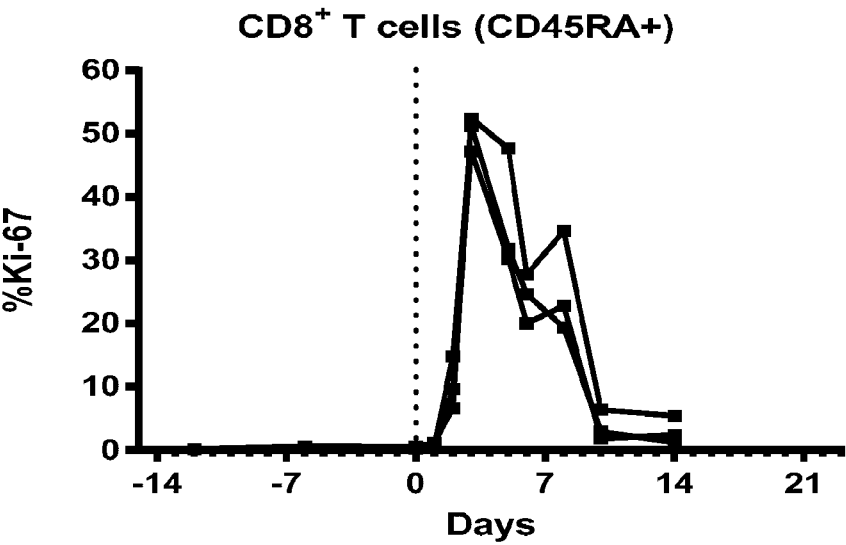


Figure 87D

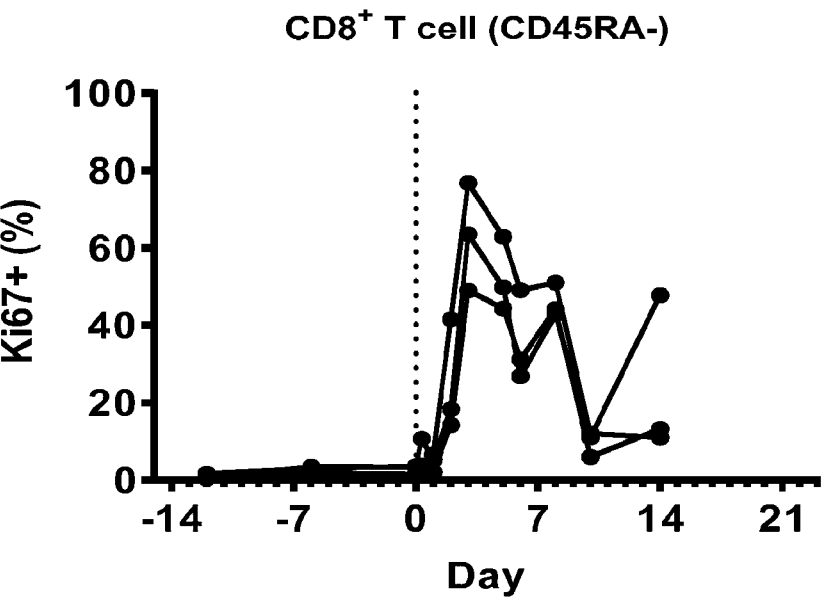


Figure 87E

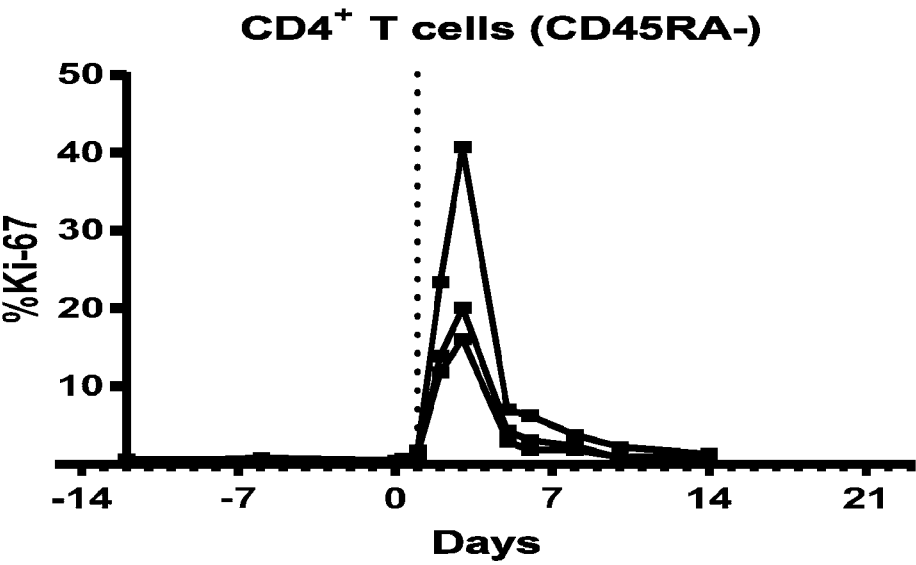


Figure 88A

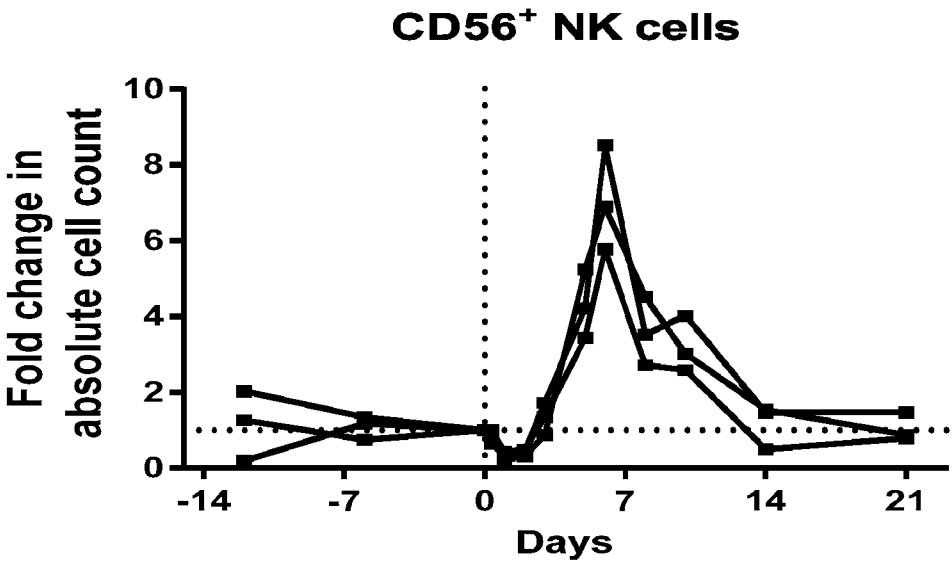


Figure 88B

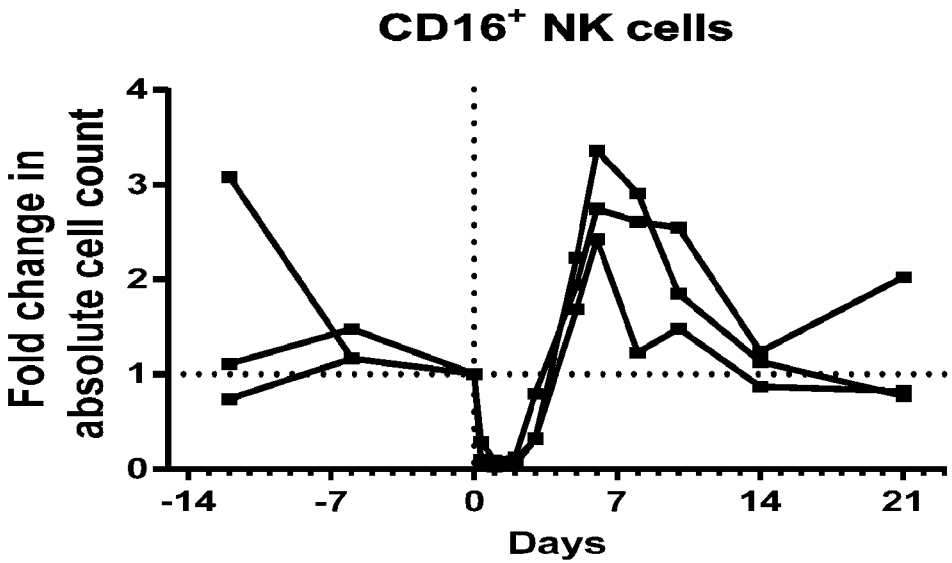


Figure 88C

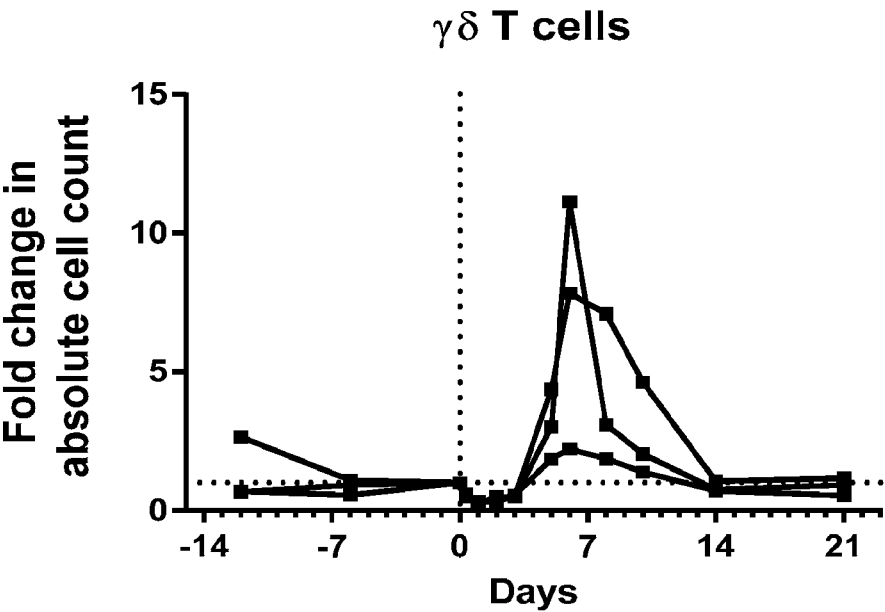


Figure 88D

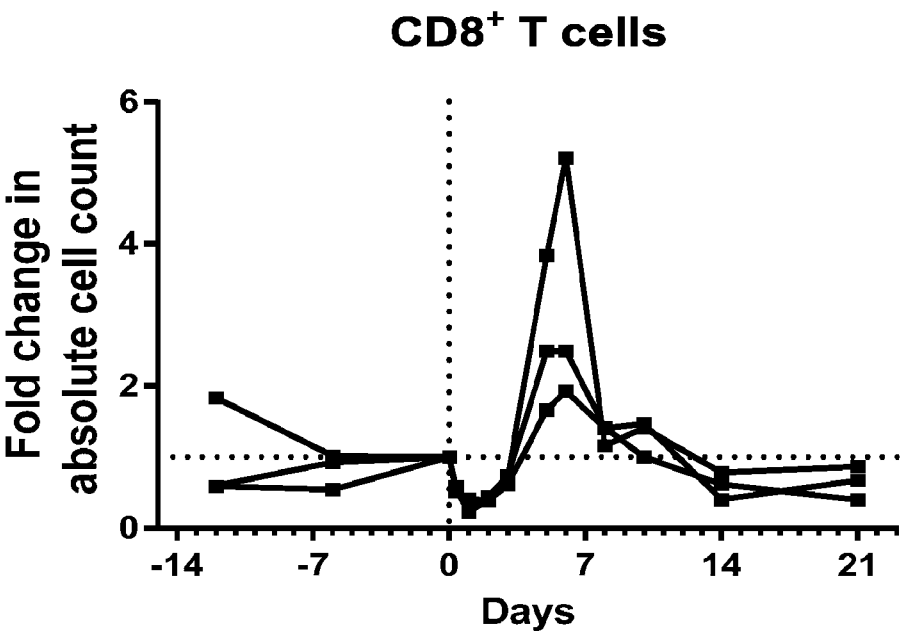


Figure 88E

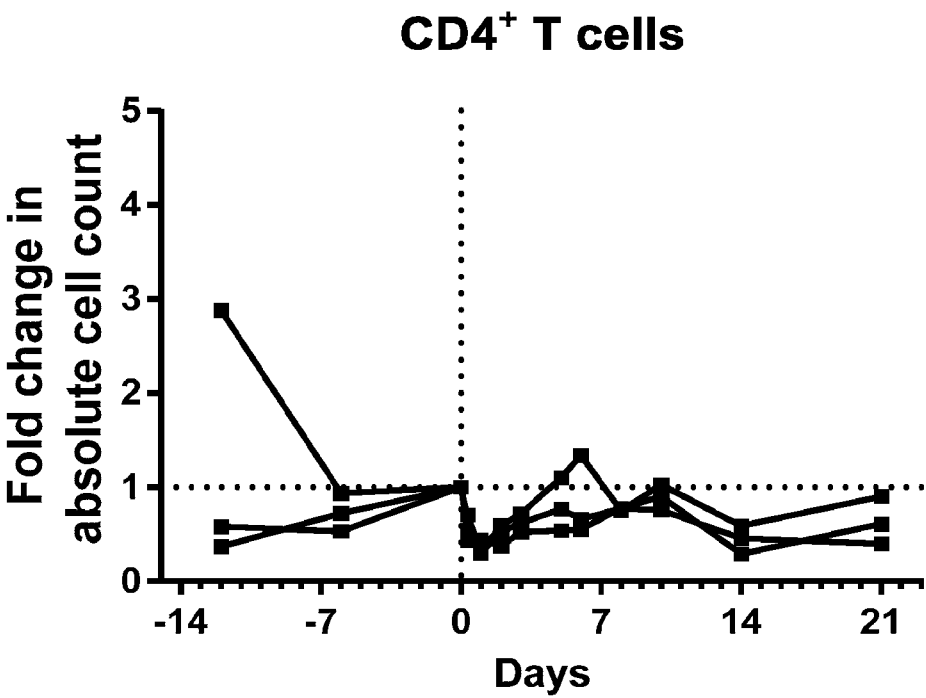


Figure 89A

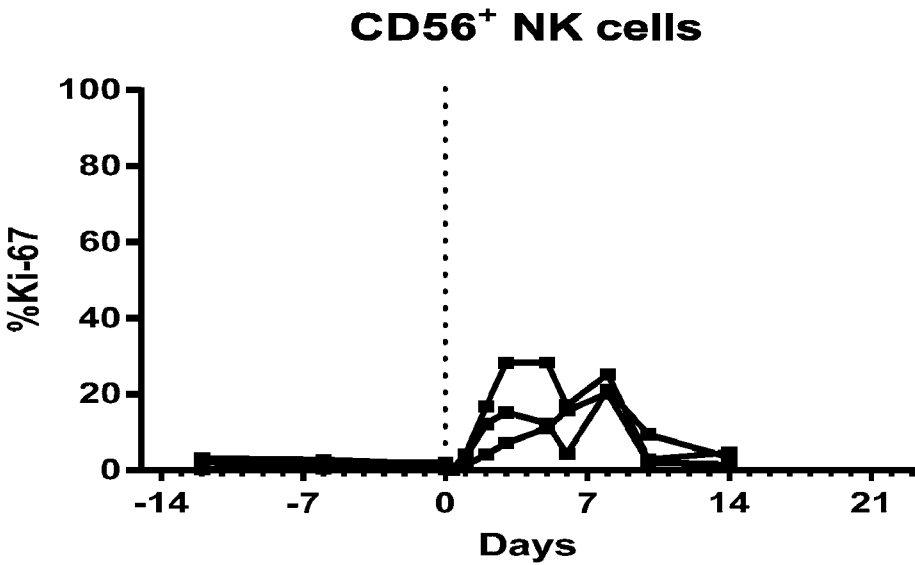


Figure 89B

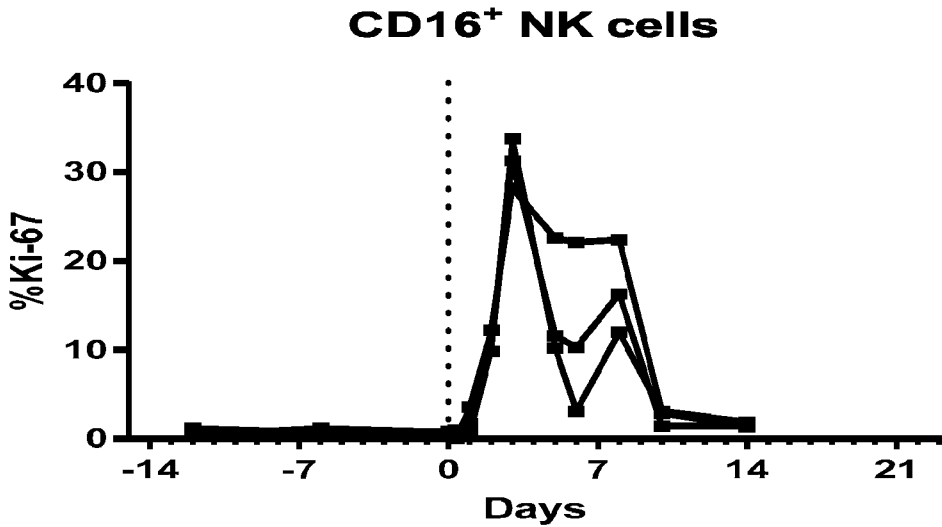


Figure 89C

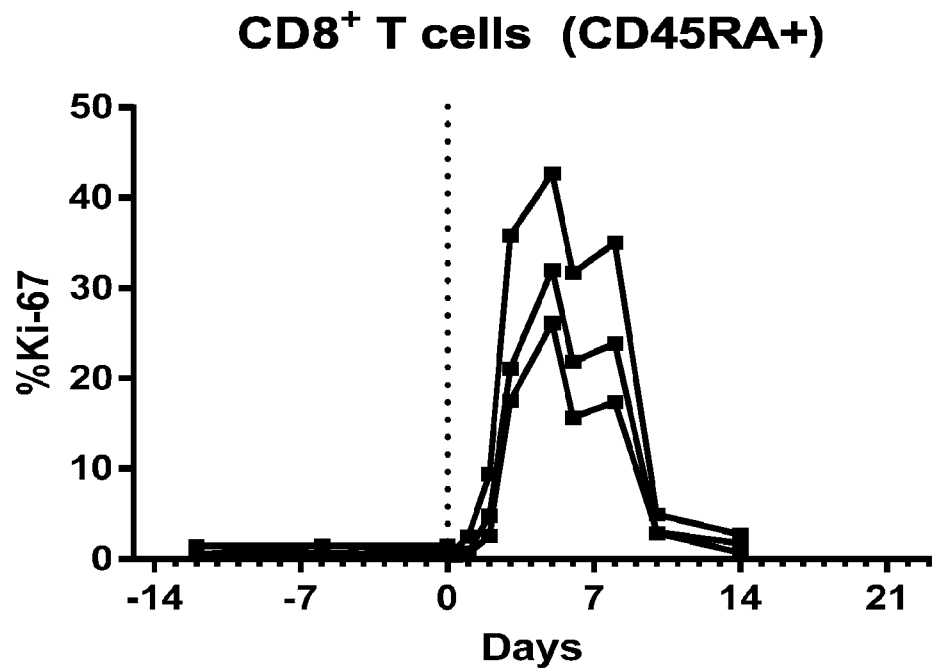


Figure 89D

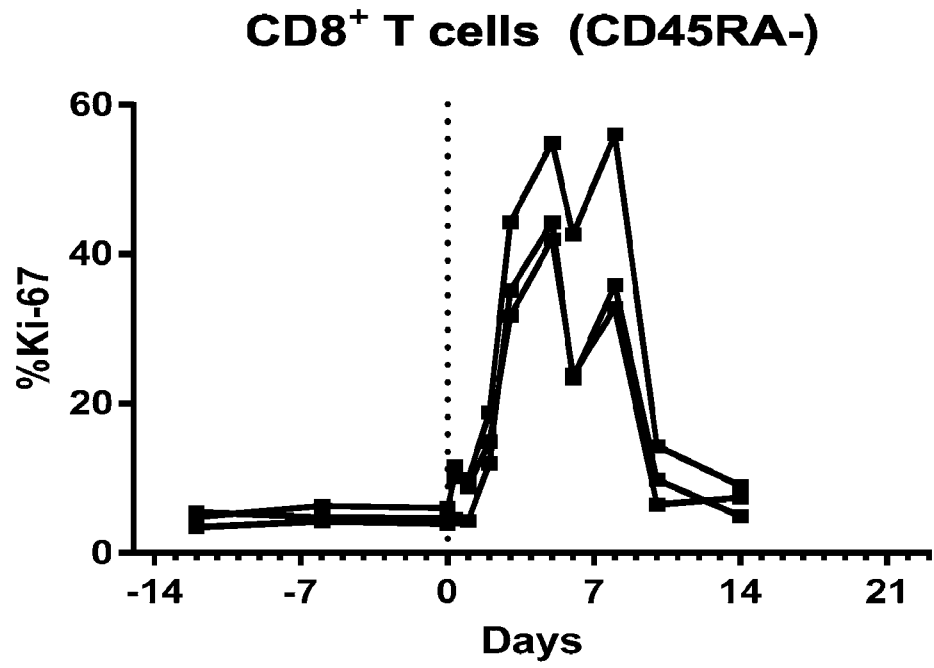


Figure 89E

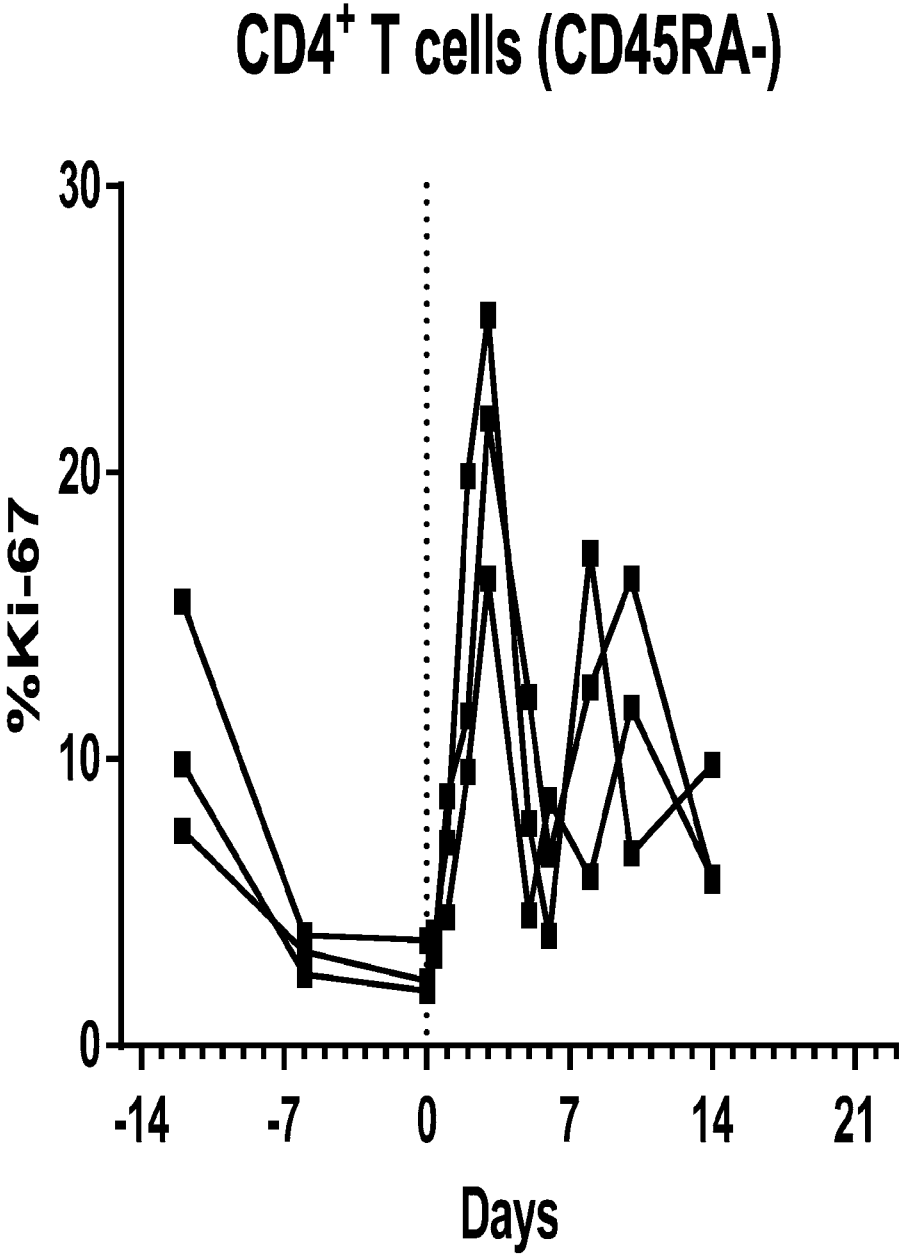


Figure 90A

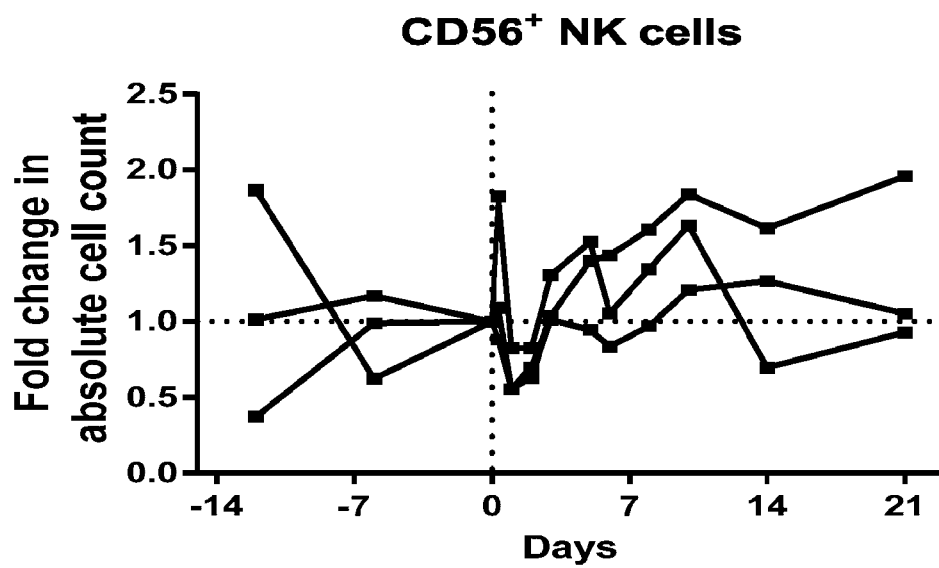


Figure 90B

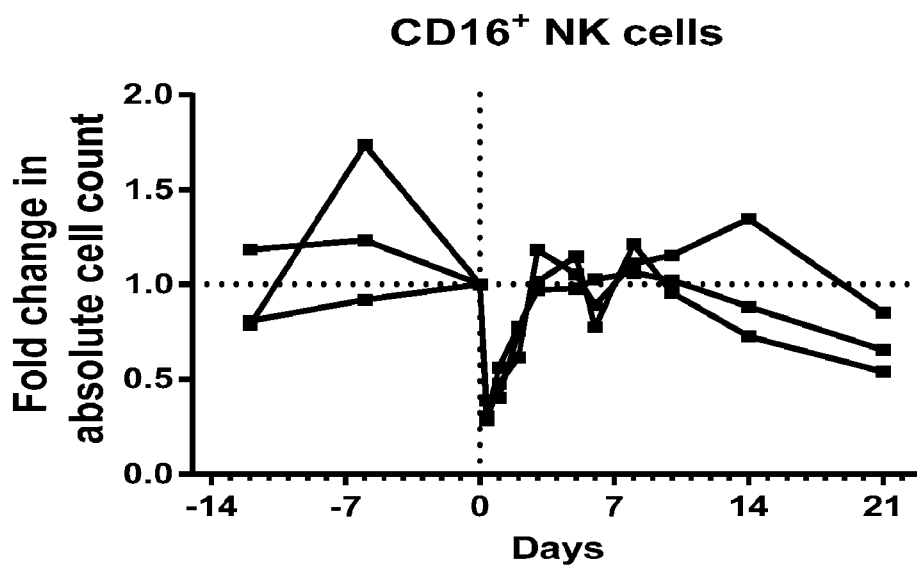


Figure 90C

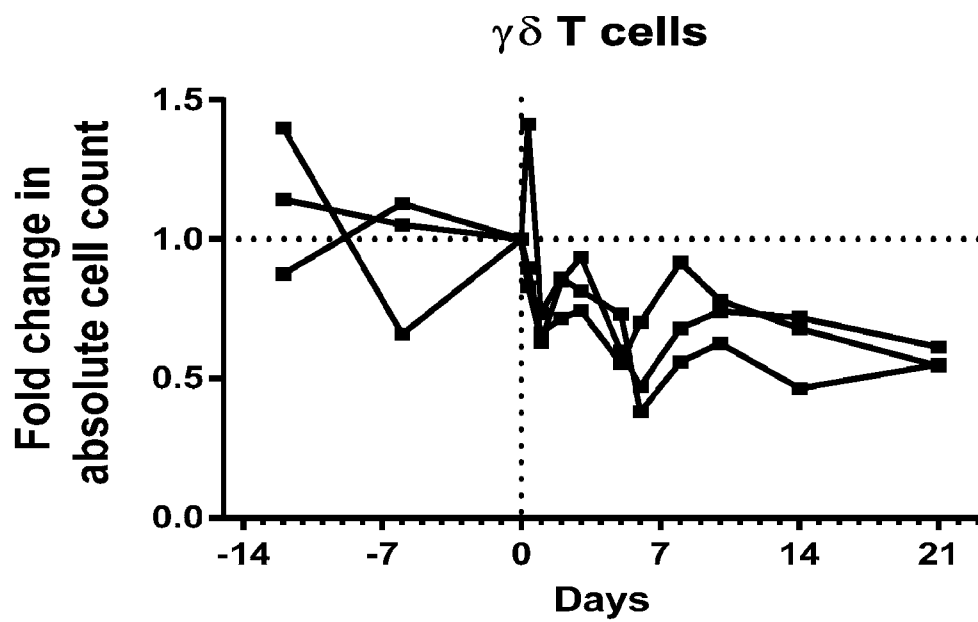


Figure 90D

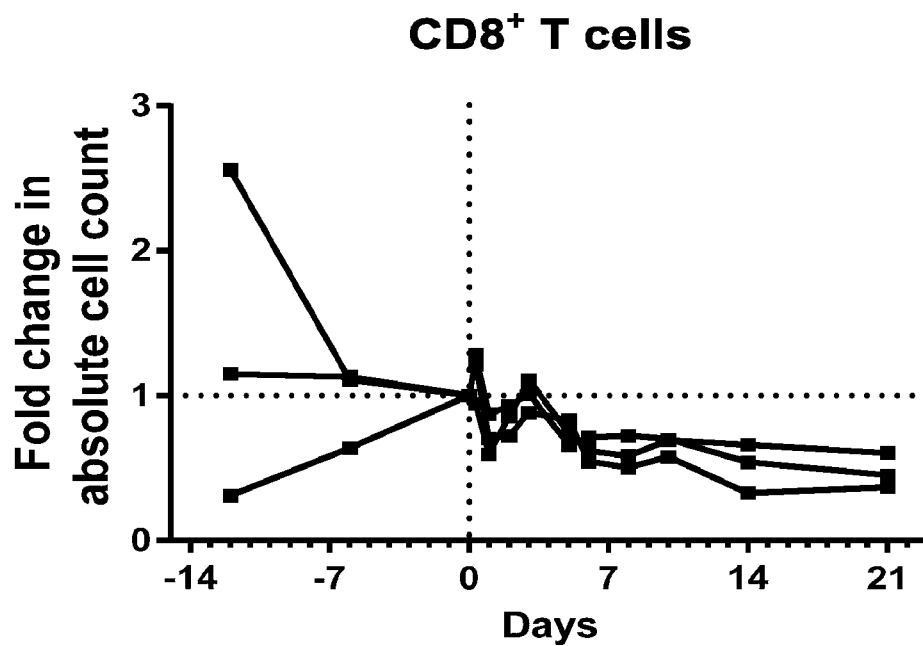


Figure 90E

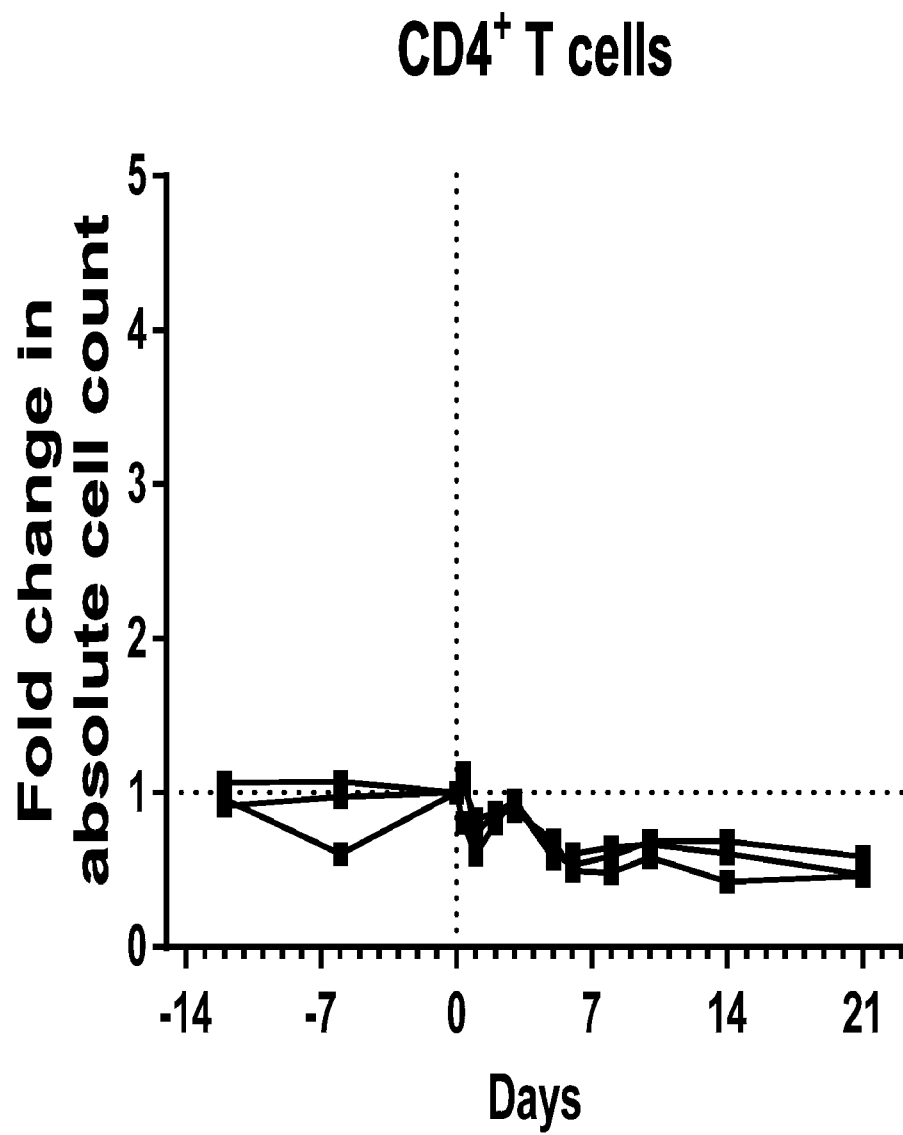


Figure 91A

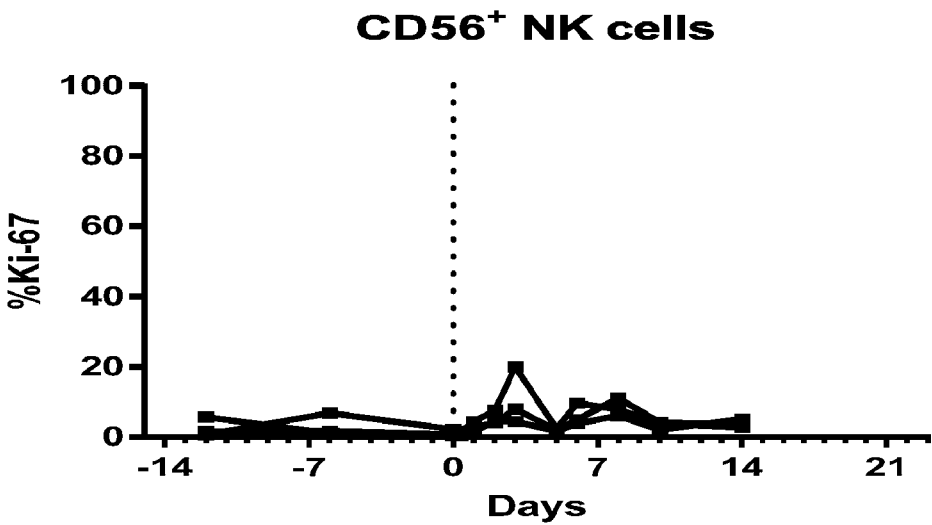


Figure 91B

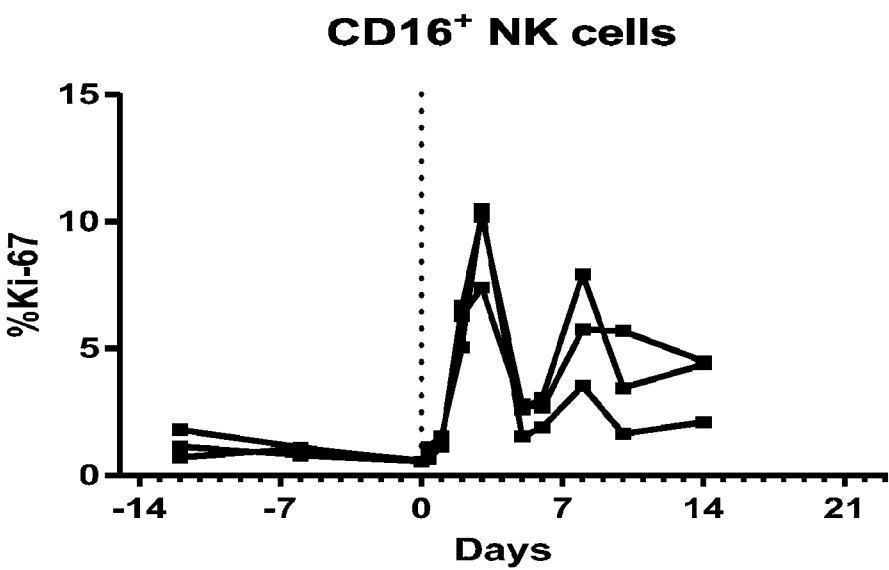


Figure 91C

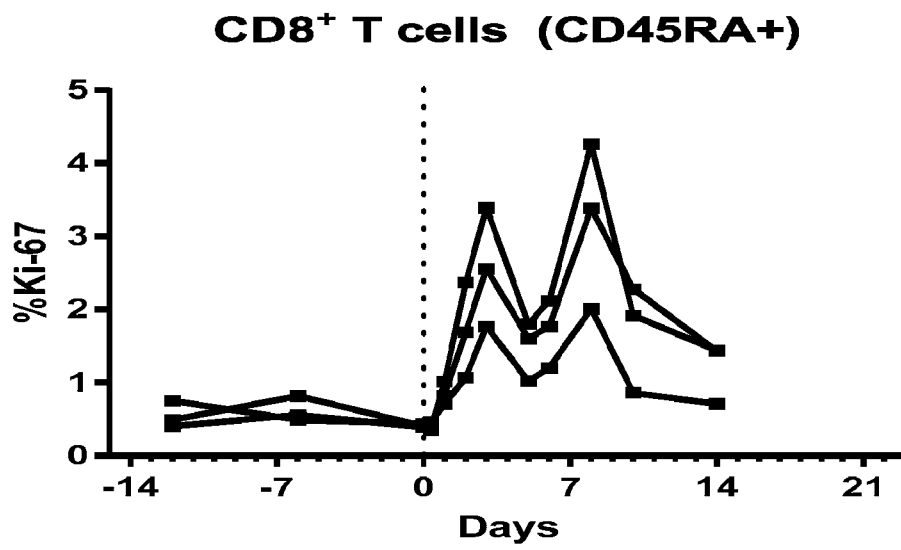


Figure 91D

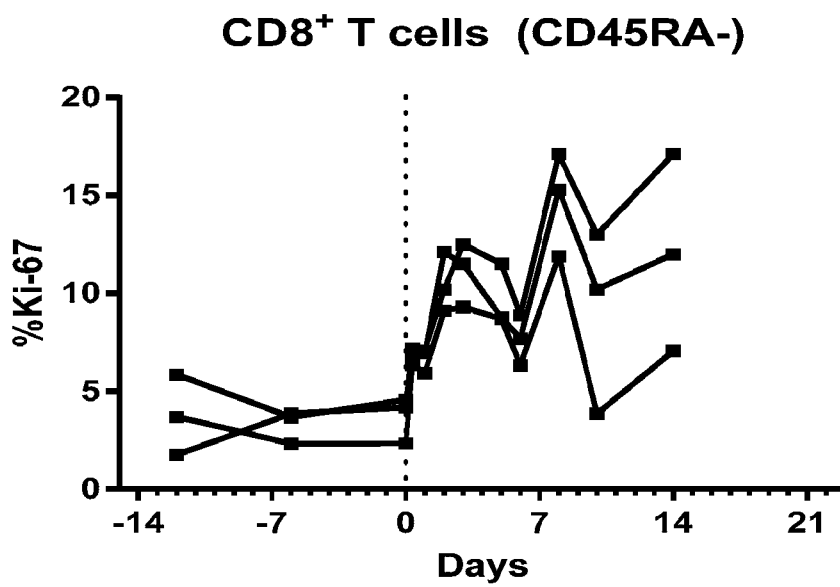


Figure 91E

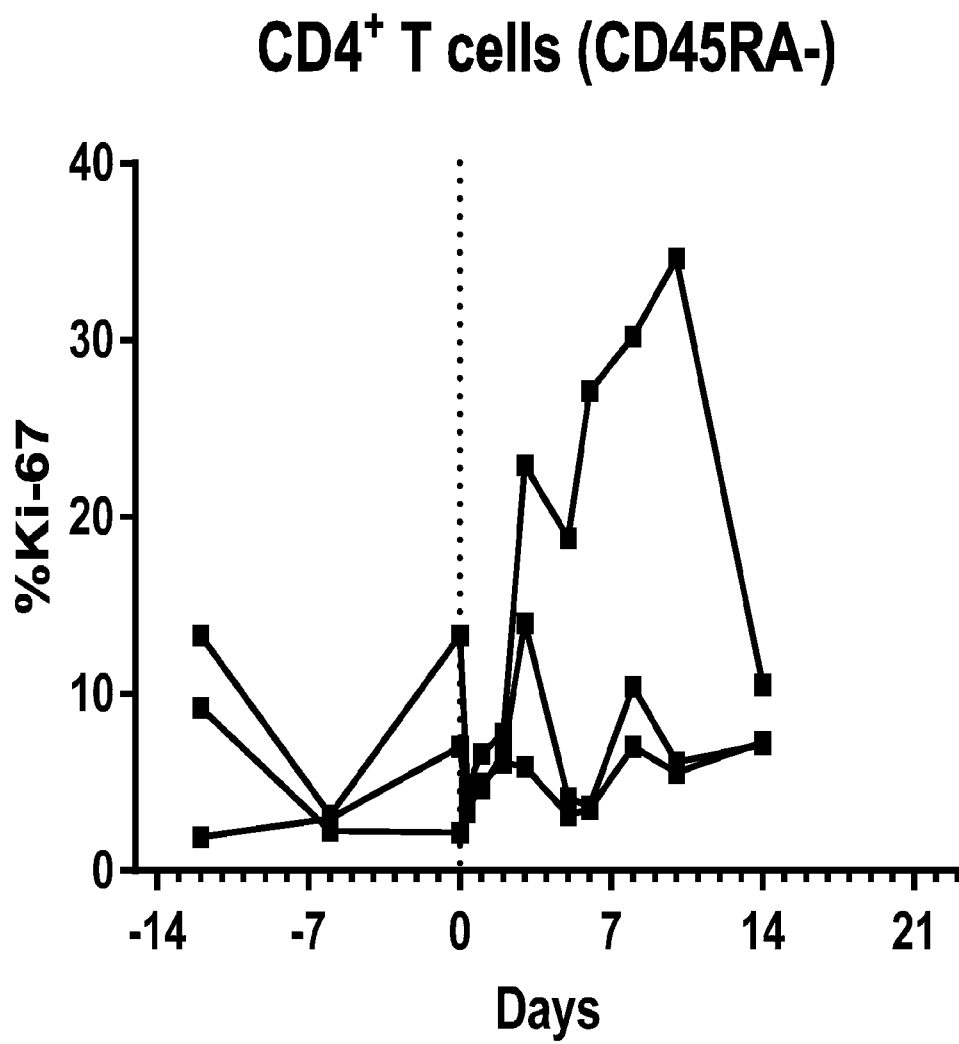


Figure 92A

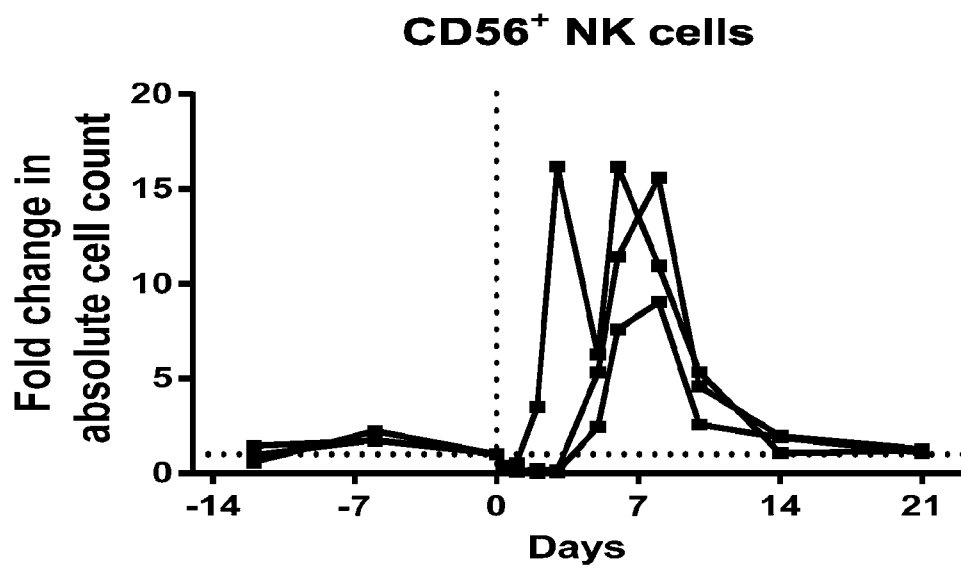


Figure 92B

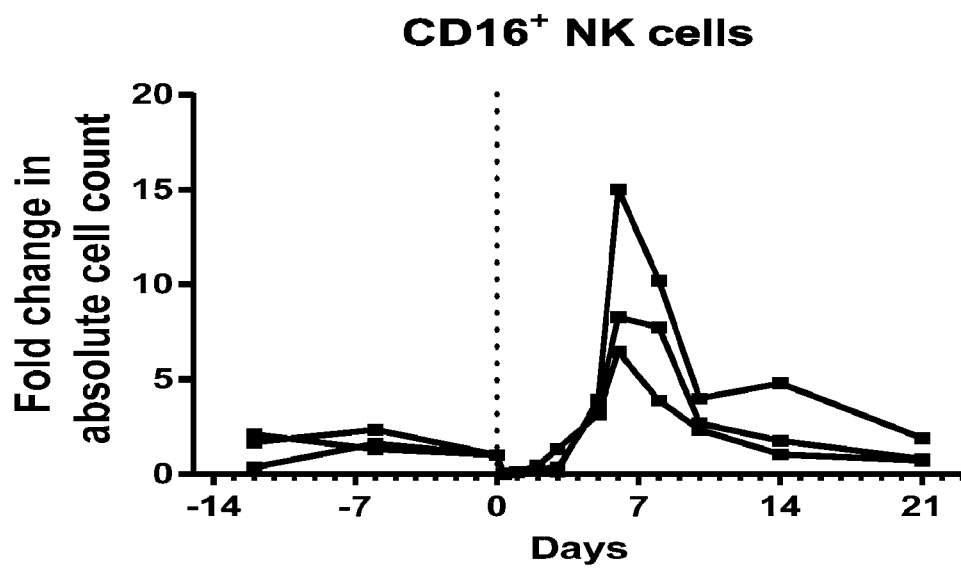


Figure 92C

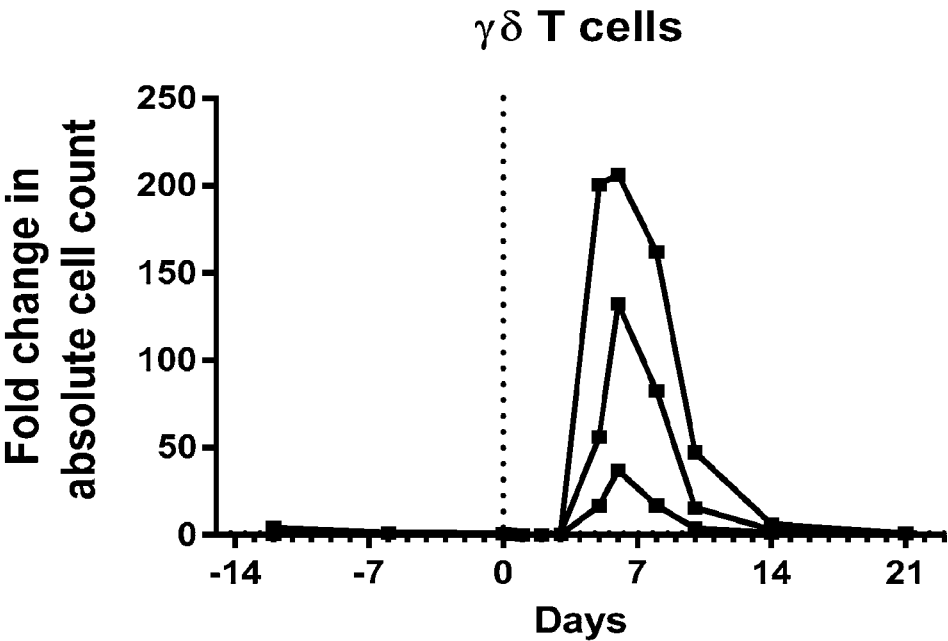


Figure 92D

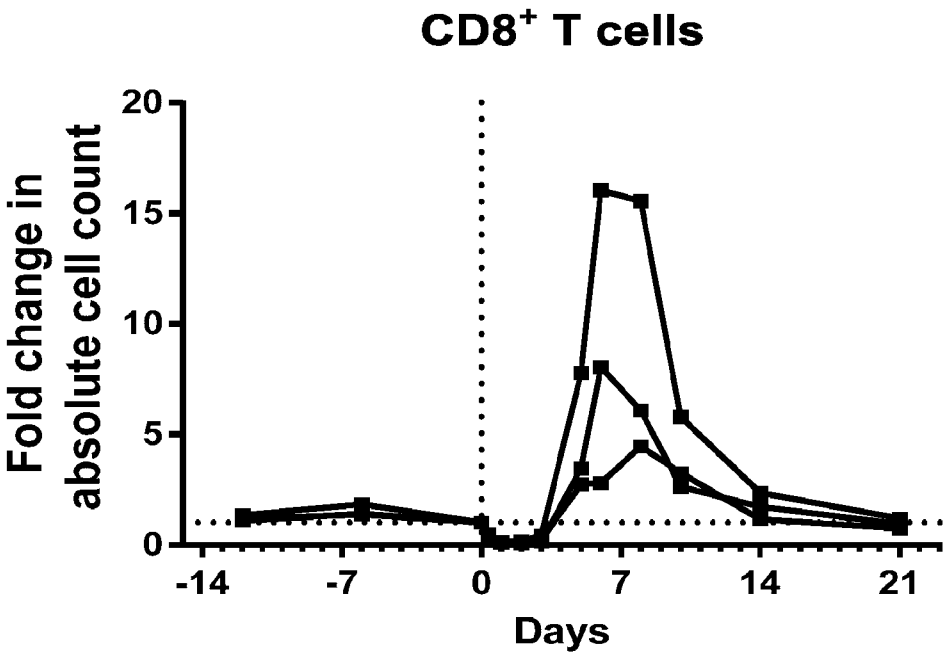


Figure 92E

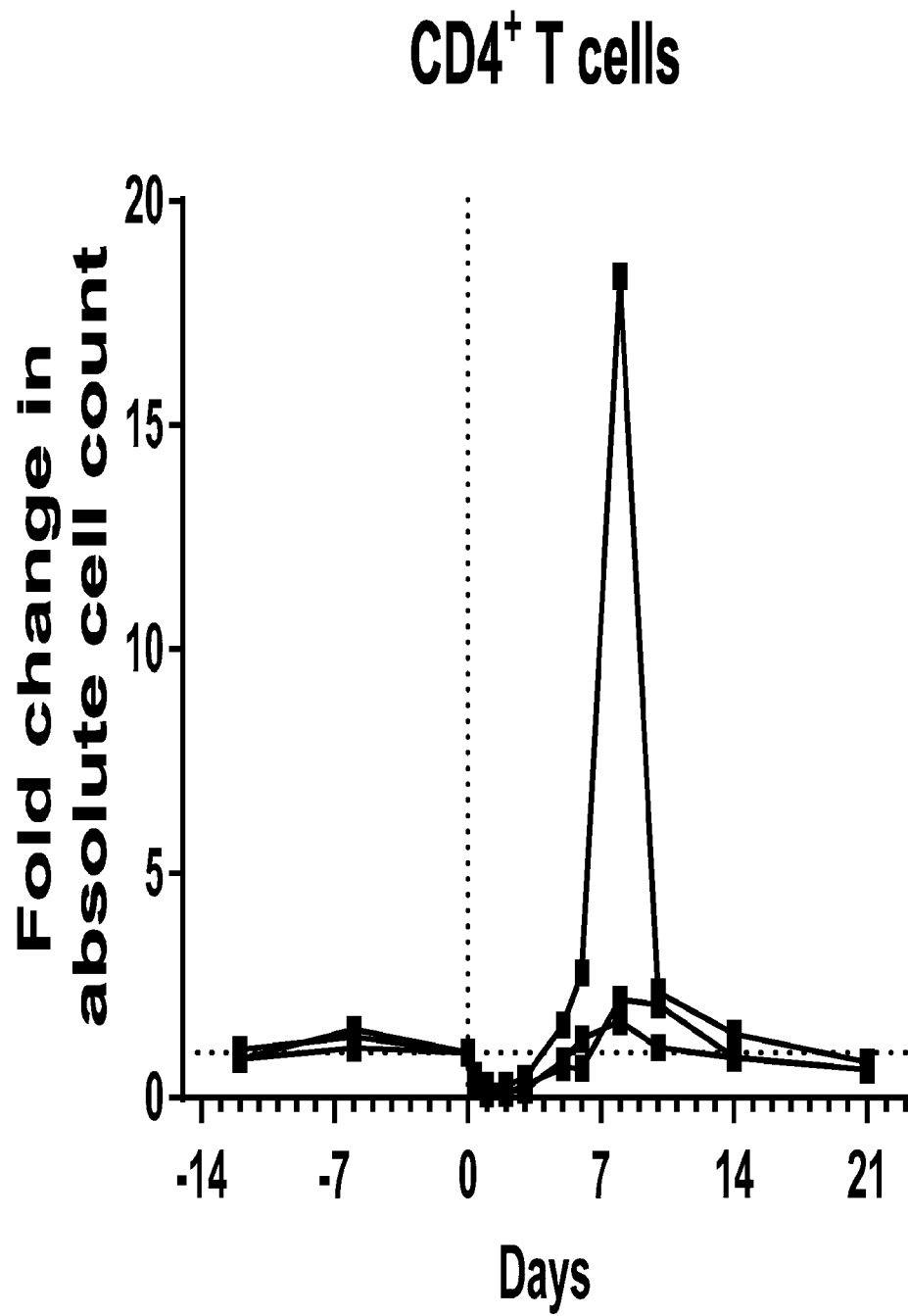


Figure 93A

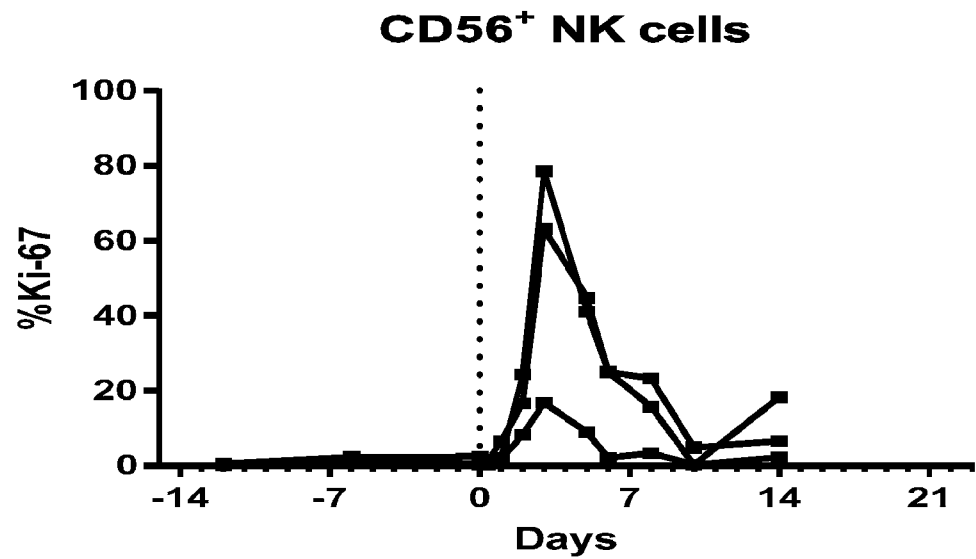


Figure 93B

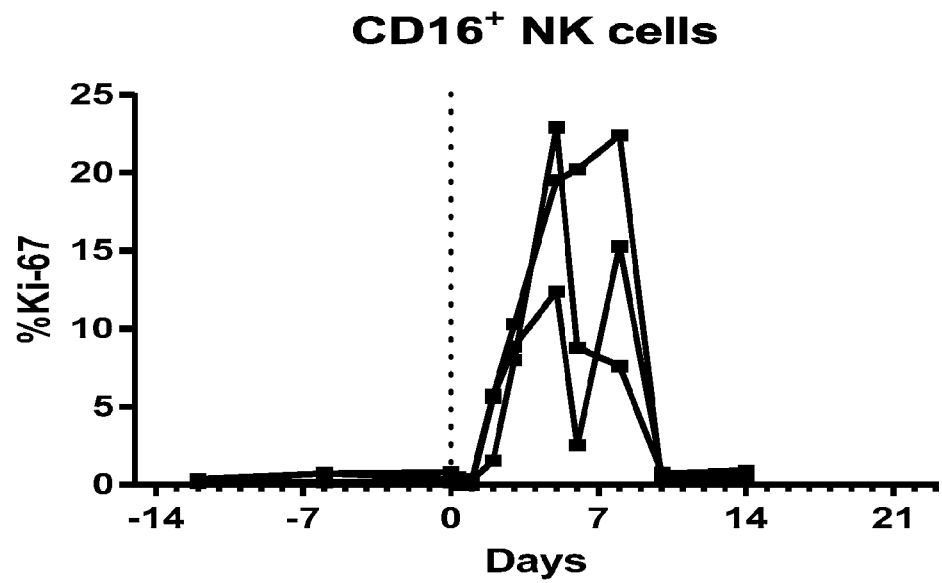


Figure 93C

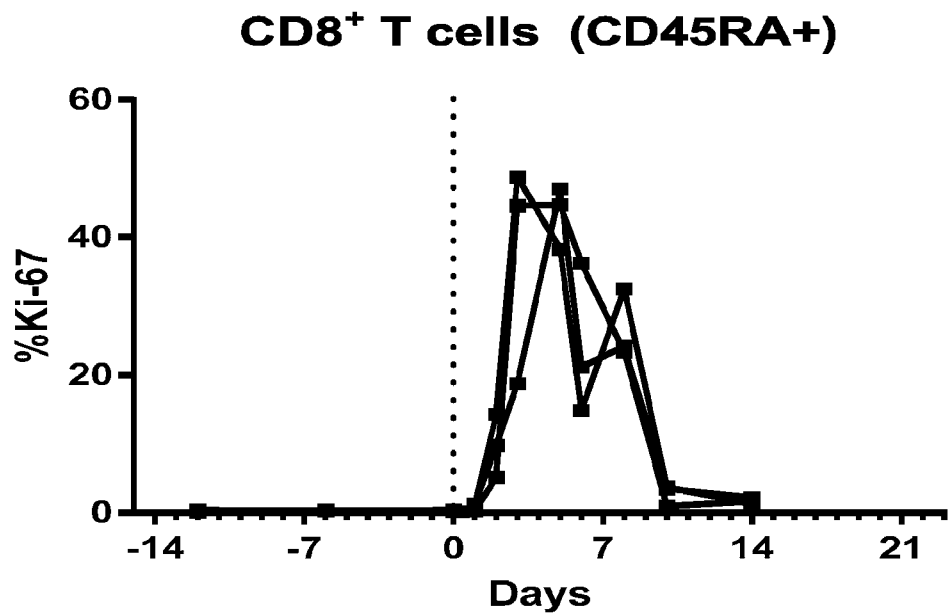


Figure 93D

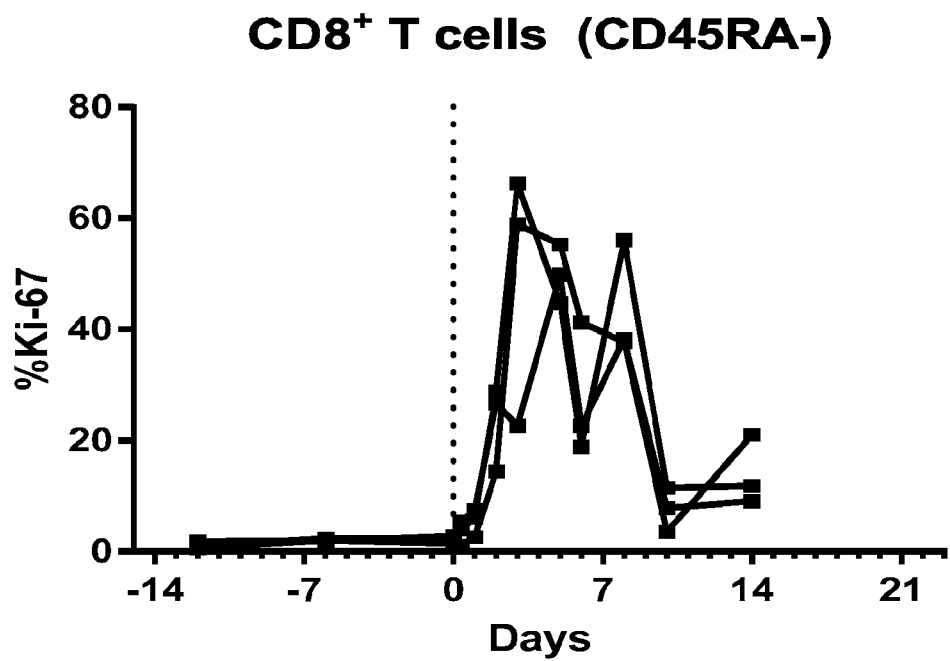


Figure 93E

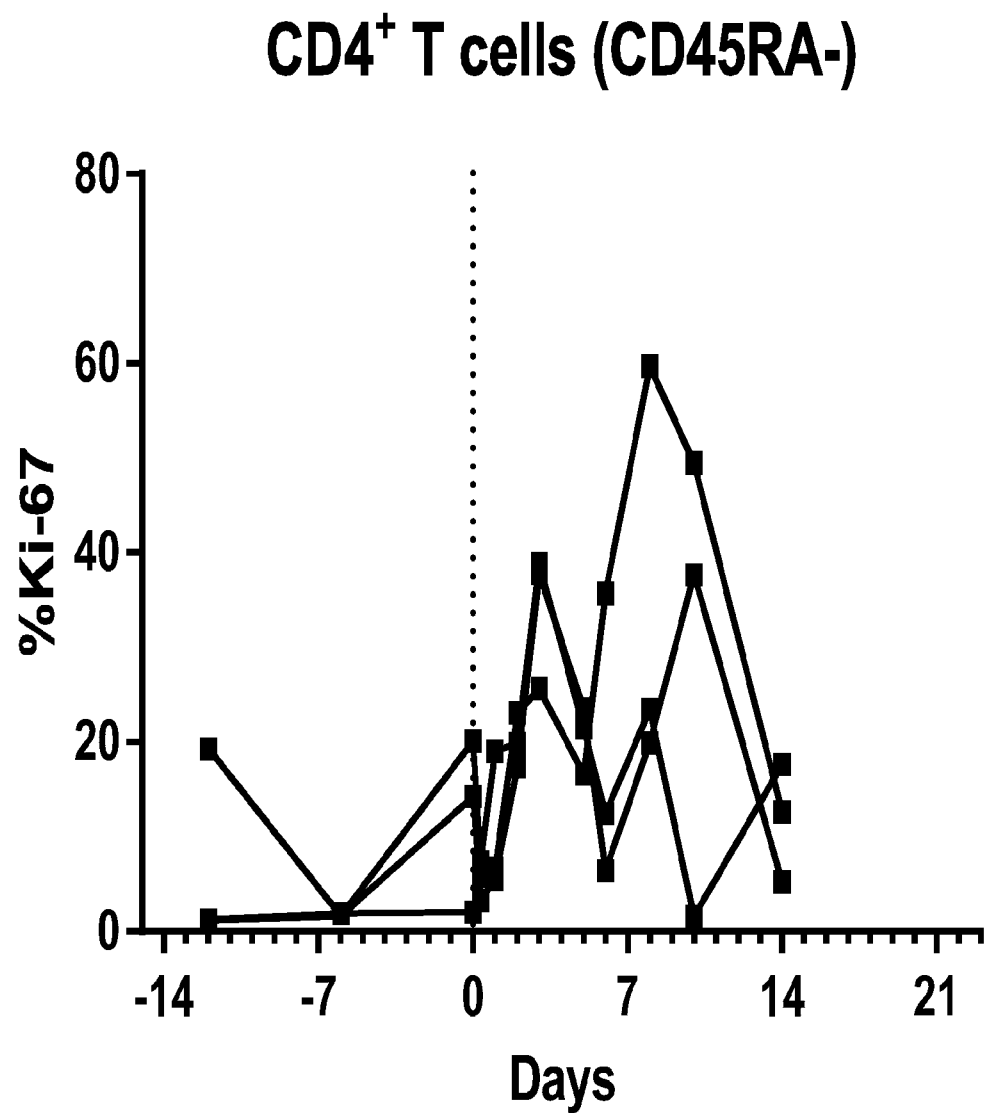


Figure 94A

>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)
NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVEDLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDSGDSFFLYSKLTVDKSRWEQGDVVFSCSVLHEALHSHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S
(17761) (SEQ ID NOS 361-363)
ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVVFSCSVLHEALHSHYTQKSLSLSPGK

>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)
NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDSGDSFFLYSKLTVDKSRWEQGDVVFSCSVLHEALHSHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S
(SEQ ID NOS 367-369)
ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVVFSCSVLHEALHSHYTQKSLSLSPGK

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)**
 NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDS DGSFFLYSKLTVDKSRWEQGDV FSCSVLHEALHSHYTQKSLSLSPGK

**Chain 2 –human_IL15R α (Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S
 (SEQ ID NOS 373-375)**
 ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTCEVLNKATNVAHWTTPSLKCIR/ GGGGS/EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSVLHEALHSHYTQKSLSLSPGK

**>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)**
 NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDS D
 GSFFLYSKLTVDKSRWEQGDV FSCSVLHEALHSHYTQKSLSLSPGK

**Chain 2 – human_IL15R α (Sushi)_ Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S (SEQ ID
 NOS 379-381)**
 ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTCEVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSVLHEALHSHYTQKSLSLSPGK

Figure 94C

>XENP024306 human IL15_D30N/E64Q/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_D30N/E64Q/N65D_(GGGGS)1_Fc(216)_IgG1_pl(-
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 382-384)
 NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCVTAMKCFLELQVISLES GDASIHDTVQDLIILANNLSL
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTT
 PVLDSDGSFFLYSKLTVDKSRWEQGDVFCSVLHEALHSHYTQKSLSLSPGK

Chain 2 – human_IL15R α (Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S
 (SEQ ID NOS 385-387)
 ITCPPPMSEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSVLHEALHSHYTQKSLSL
 PGK

>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 388-390)
 DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVEDLIILANNLSL
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTPVLDSD
 GSFFLYSKLTVDKSRWEQGDVFCSVLHEALHSHYTQKSLSLSPGK

Chain 2 – human_IL15R α (Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S (SEQ ID
 NOS 391-393)
 ITCPPPMSEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSVLHEALHSHYTQKSLSLSPGK

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)

ITCPPMMSVEHADIWKSYSLYSRERYICNSGFKRKAGTSSSLTECVLNKATNVAHWTTPSLKCIIR/[GGGSGGGGSGGGGSGGGSGGGG](#)
S/NWVDVISDLKKTEDLITQSMHIDATLYTESDHPVSPCKVITAMKCFLLQLVLSLESGDASHDTVEDLIILANNSLSNNGNVTESGCKEC
EELEENIKAEKFLQSFVHIVQMFINTS/E2PKSSDKDTHTCPPC2APPVAGPSVFLF2PKPKDITIMI SRT?EVTVCVWVDVKHDEPEVKFNWYV
DGEVHNAKTKPREEEYNSTRVWSVLTVLHQDLNKGKEYCKVSNKALPAPIETKITSKAGQSHREYQVTLPPSREEMTKNQVSLTCDV
SGFYPSDLIAVEWESDGQEPENNYKITPPVLDSGSGFFLYSKLITVDKSRWEQGVDFSCSVLHEALHSHPTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPKPKDITMISRTPEVTCVWVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVL
TVLHQLDQLNGKEYCKKVSNAKALPAIEKTIKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTP
VLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVLHEALHSHYTKQSLSLSPGK

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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVEMFINTS

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

)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 400-402)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSQSVLHEALHSHYTQKSLSLSPGK

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

EPKSSDKTHITCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPYPSDIAVEWESNGQPEENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVLHEALHSHYTQKSL
SLSPGK

Figure 96

**>XENP024346 human IL15(non-covalent; Q108E)-
human IL15Rα(Sushi) Fc(216) IgG1 C220S/PVA /S267K/M428L/N434S**

Chain 1 – human_IL15Rα(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/M428L/N434S (SEQ ID NOS 404-406)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTIVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVLHEALHSHYTQKSLSLSPGK

Chain 2 – human_IL15(non-covalent; Q108E) (SEQ ID NO: 407)
NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLEQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVMFINTS

**>XENP024351 human IL15(non-covalent; N4D/N65D)-
human IL15Rα(Sushi) Fc(216) IgG1 C220S/PVA /S267K/M428L/N434S**

Chain 1 – IL15(N4D/N65D) (SEQ ID NO: 408)
NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLEQVISLES GDASIHDTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVMFINTS

Chain 2 - human_IL15Rα(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/M428L/N434S (SEQ ID NOS 409-411)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTIVLHQDWLNGKEYKCKVSNKALP
API EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVLHEALHSHYTQKSLSLSPGK

Figure 97A

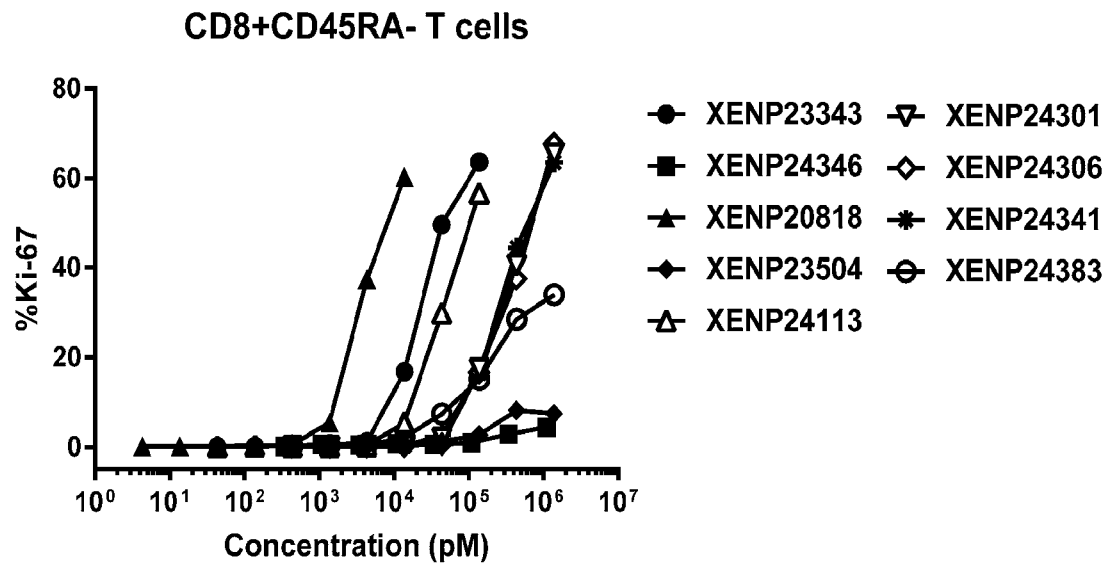


Figure 97B

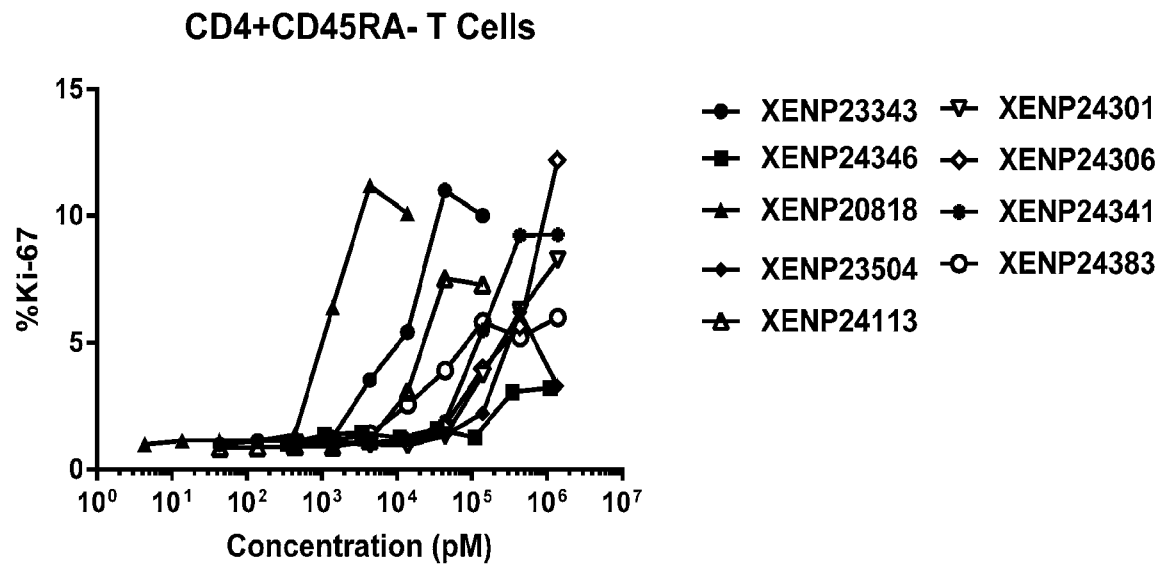


Figure 97C

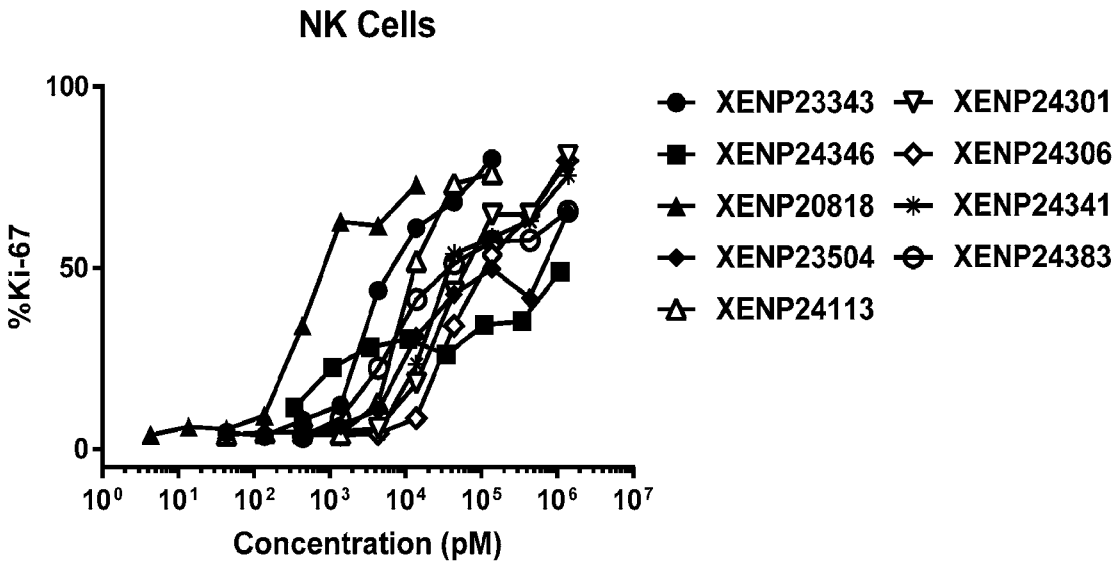


Figure 98A

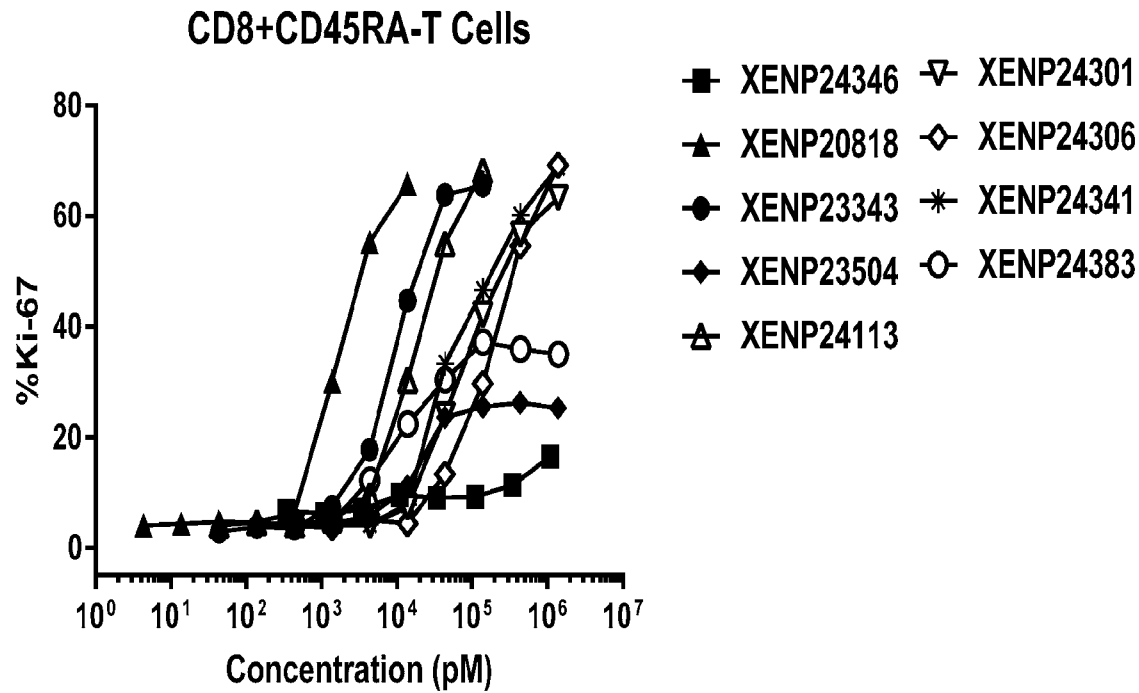


Figure 98B

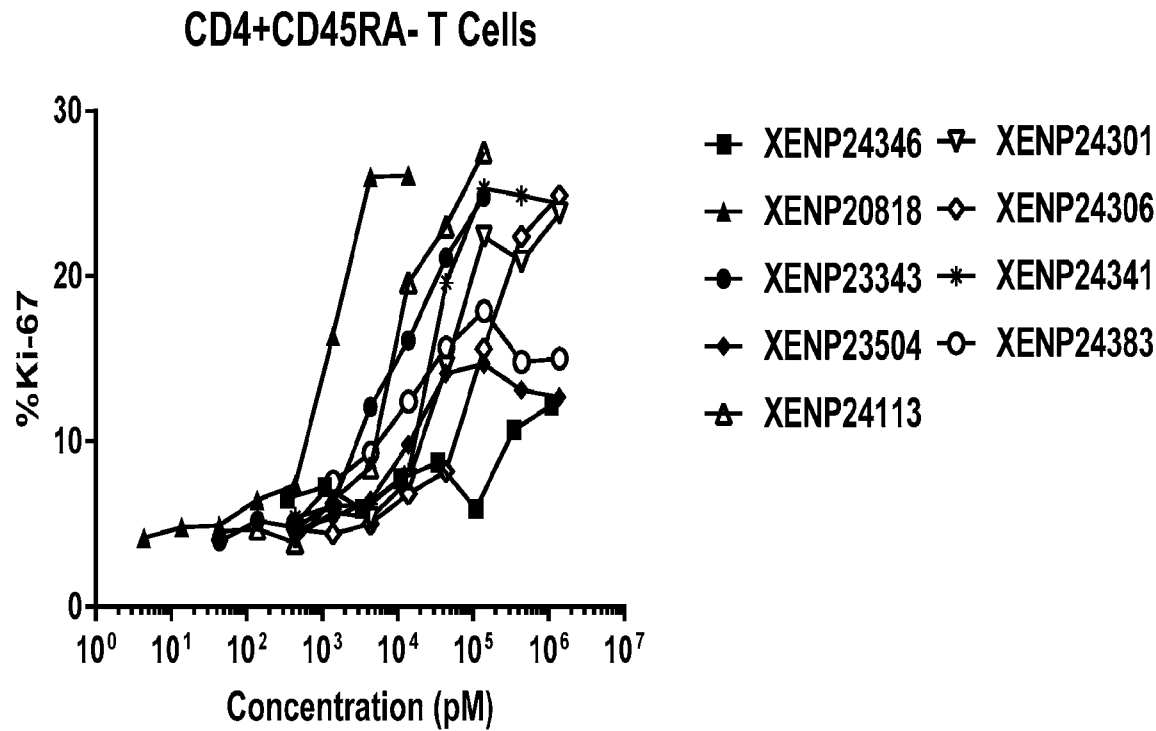


Figure 98C

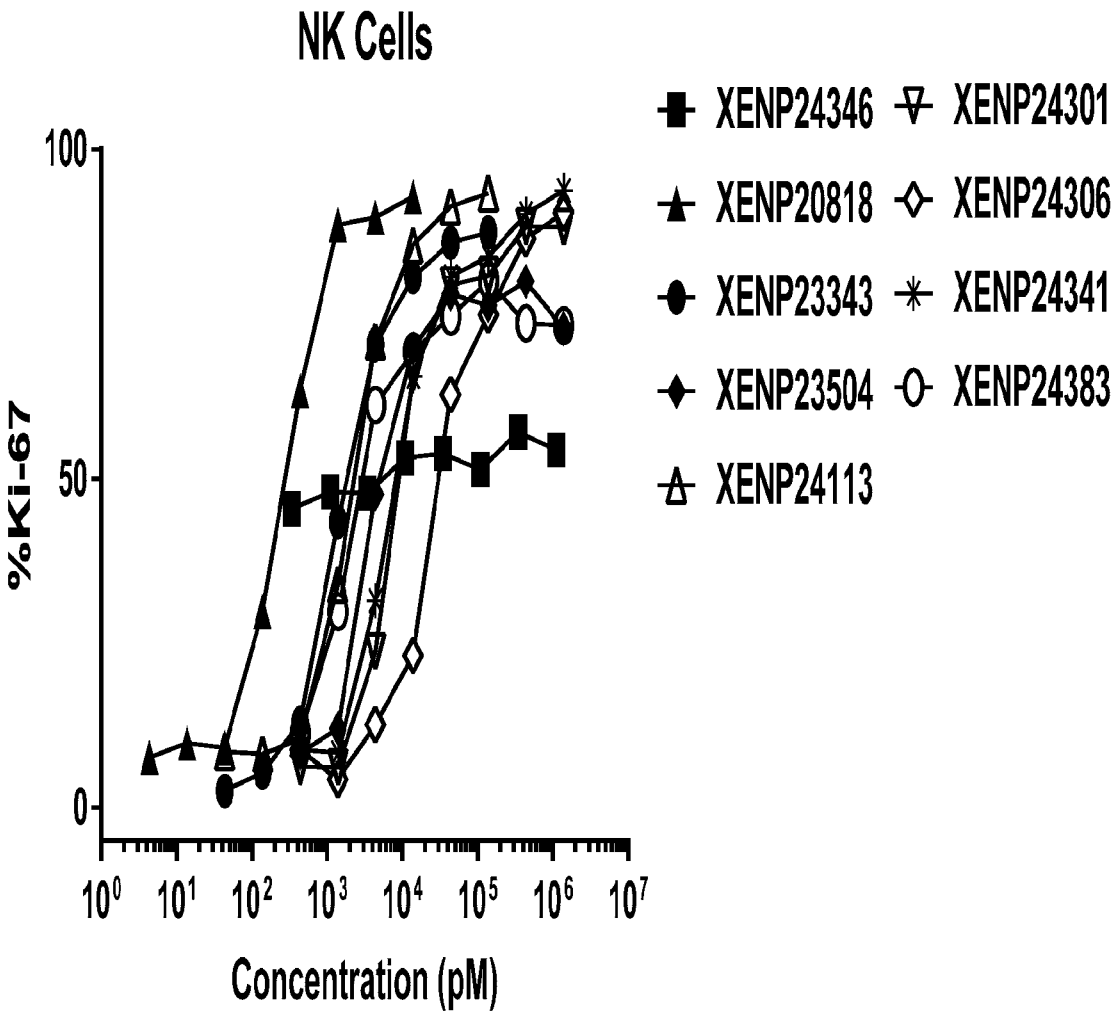


Figure 99A

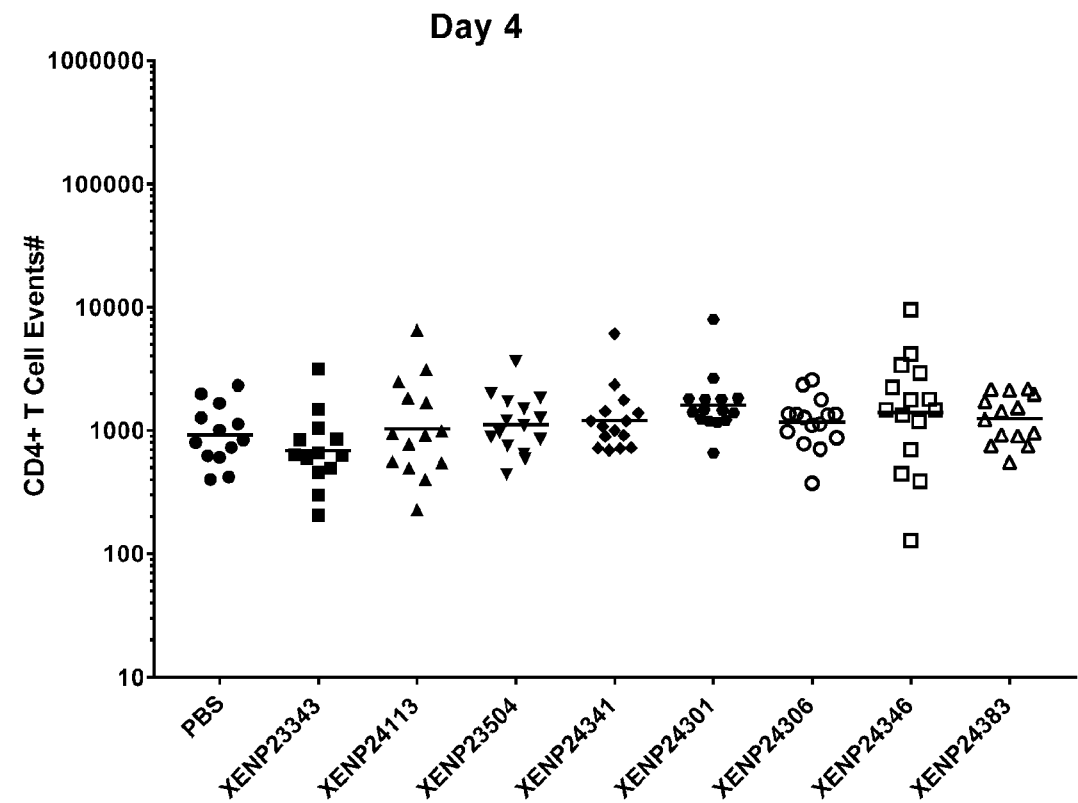


Figure 99B

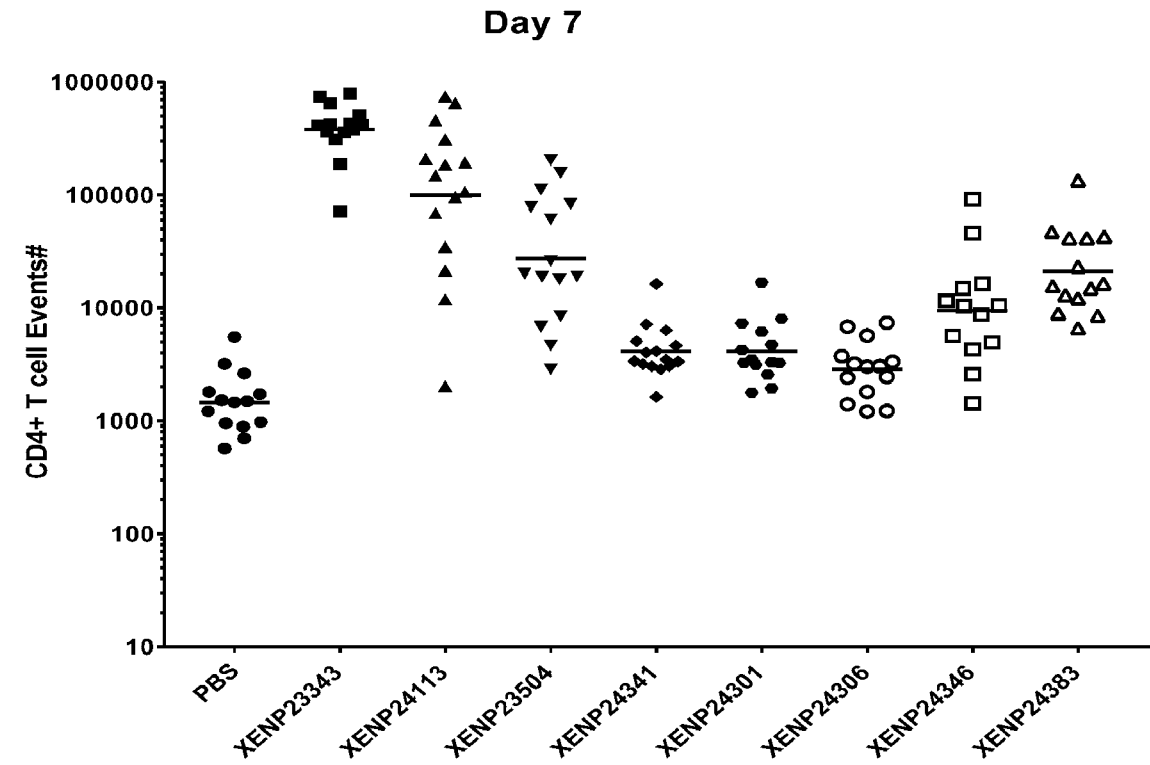


Figure 99C

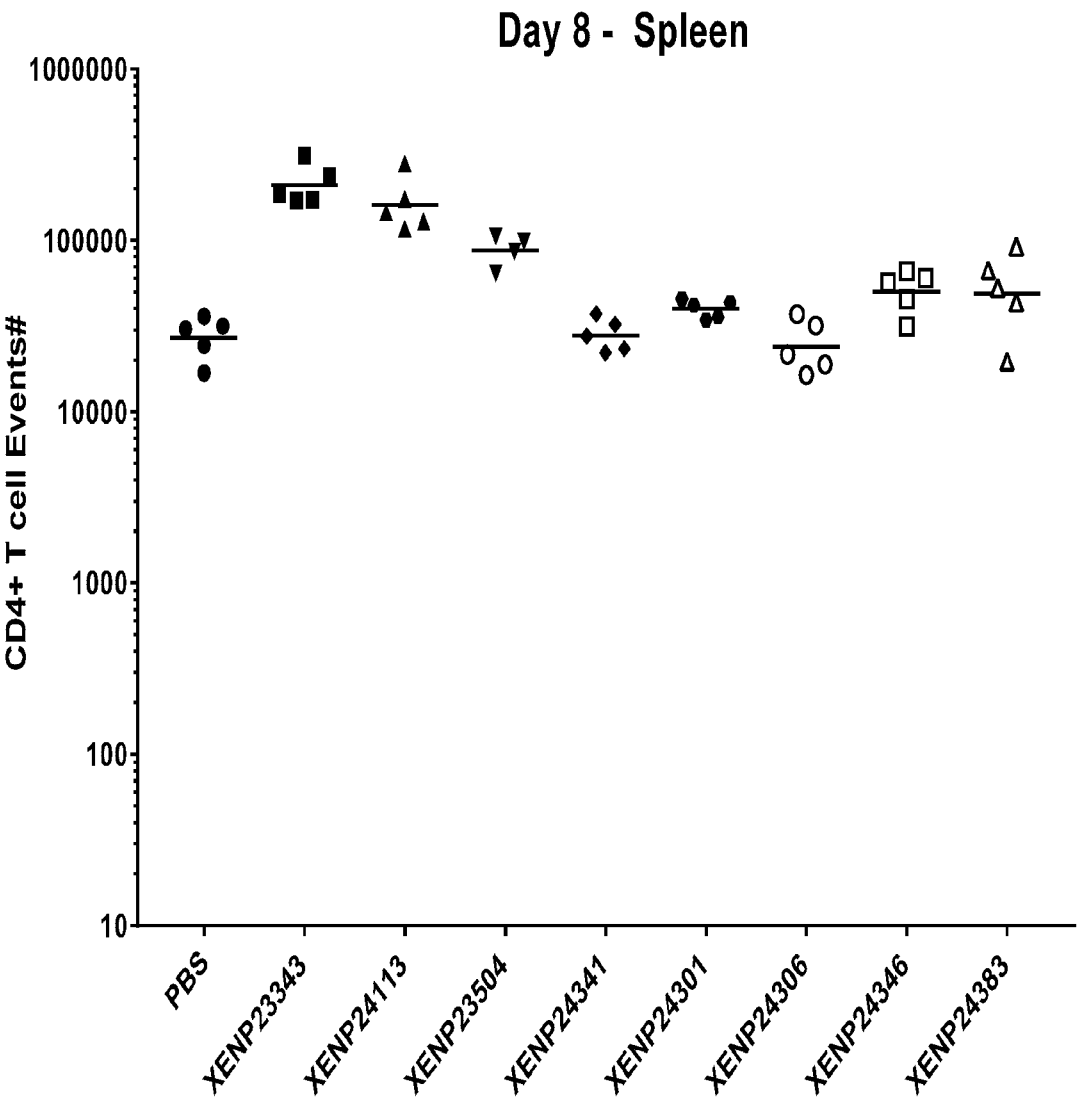


Figure 100A

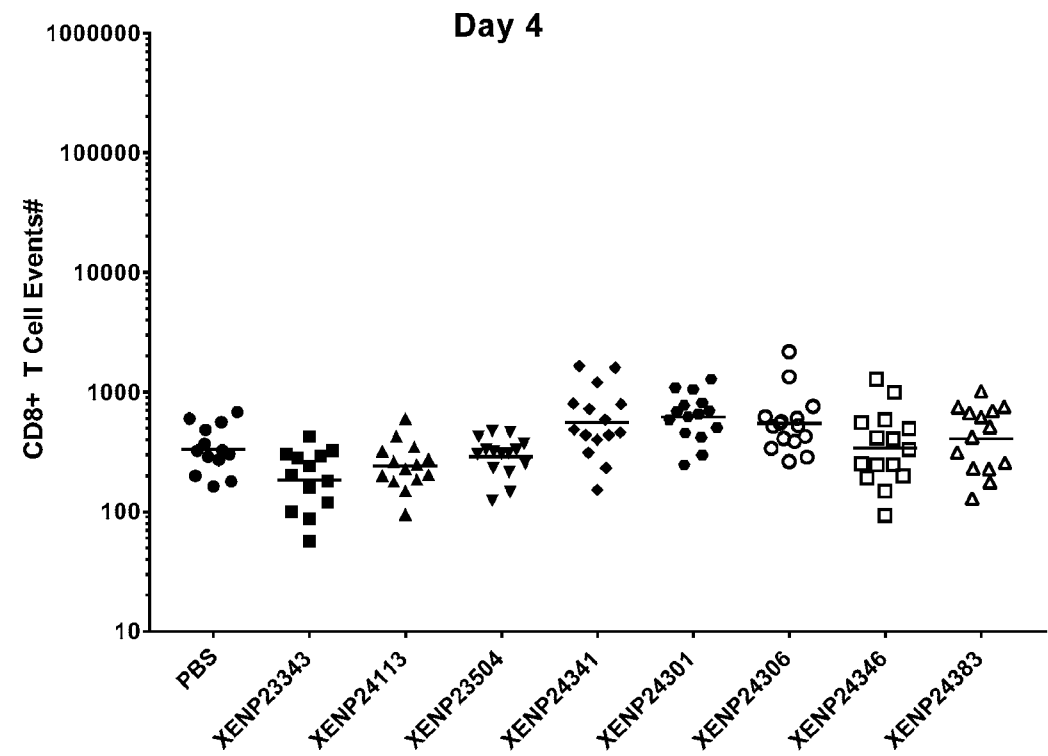


Figure 100B

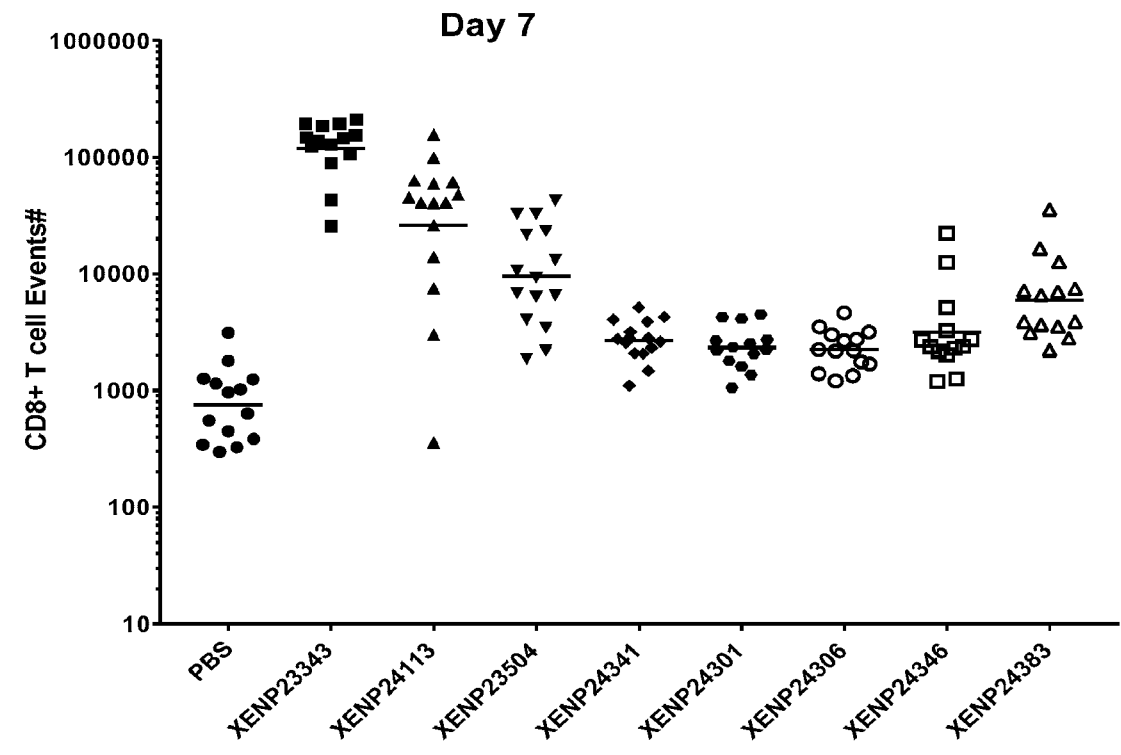


Figure 100C

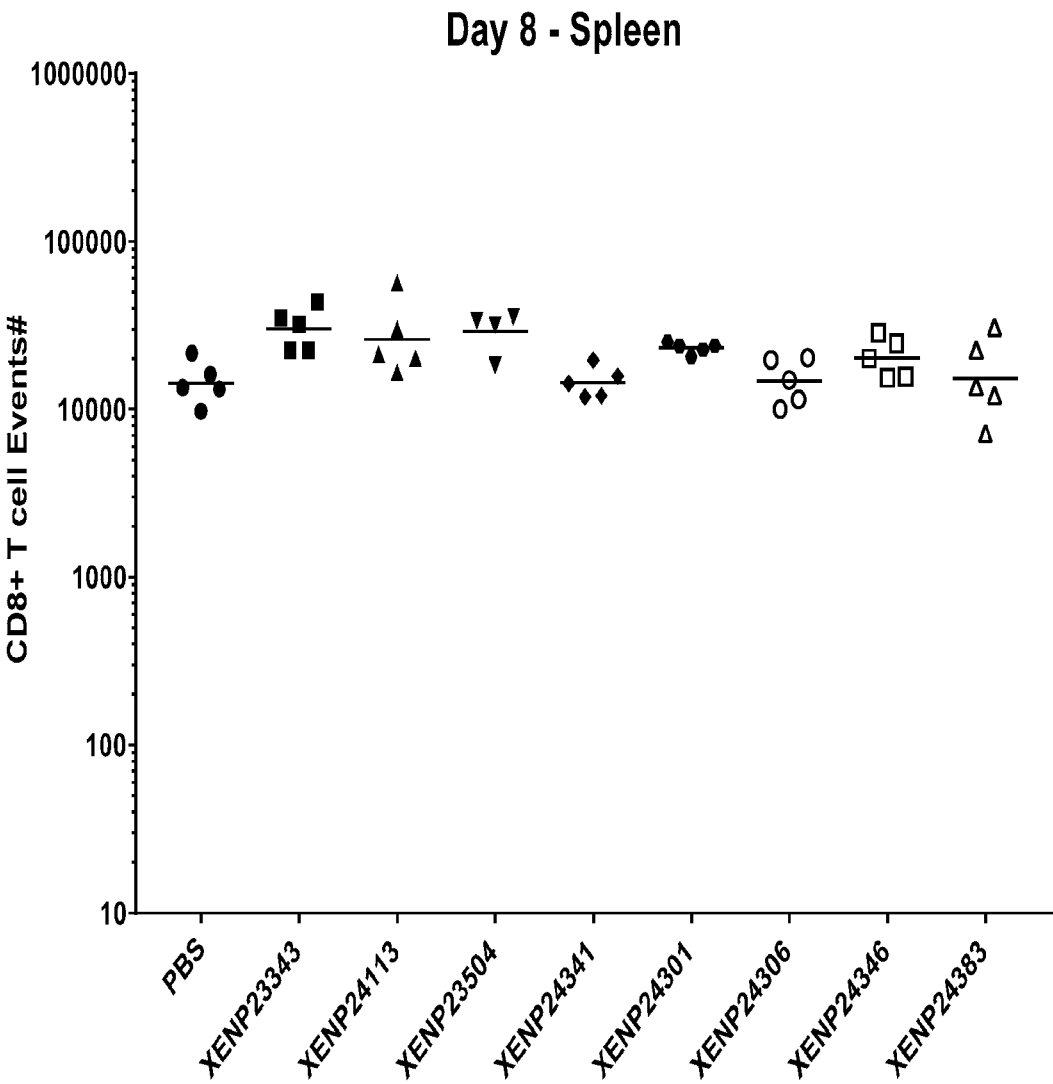


Figure 101A

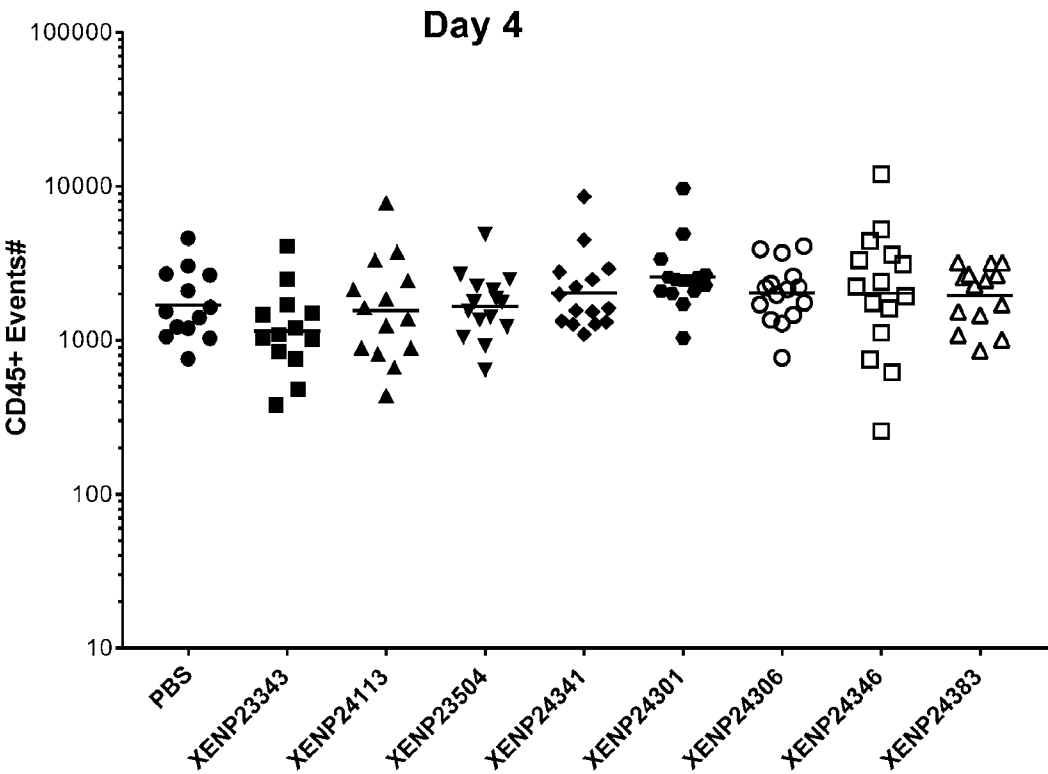


Figure 101B

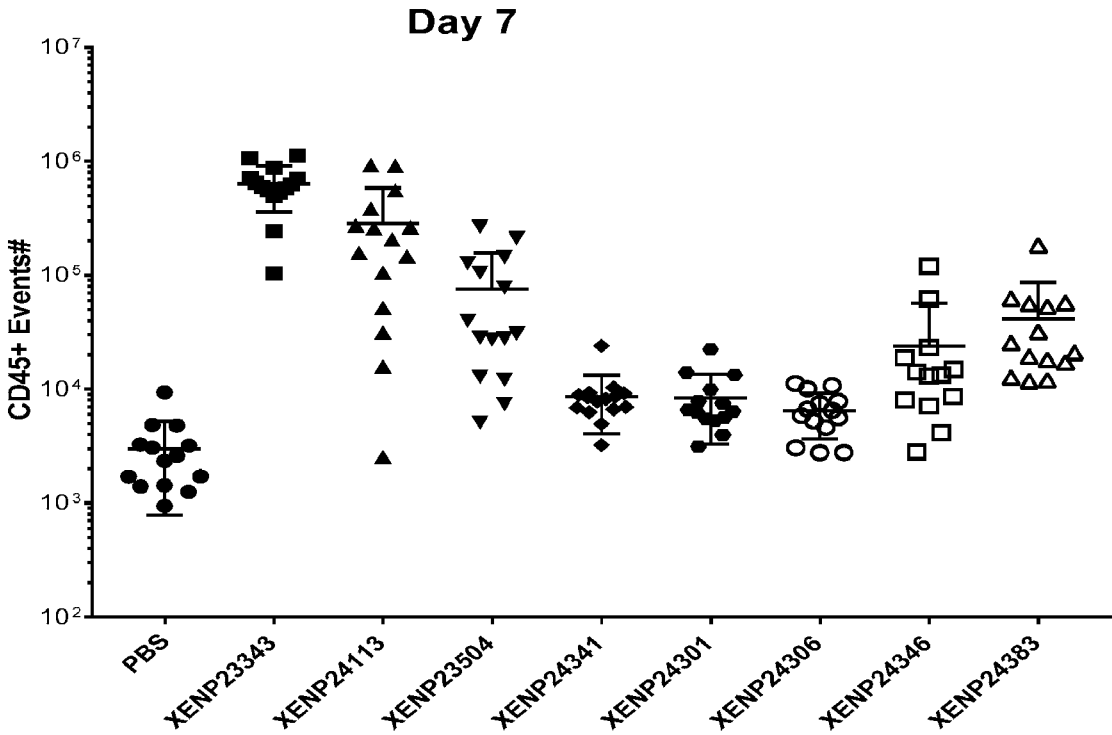


Figure 101C

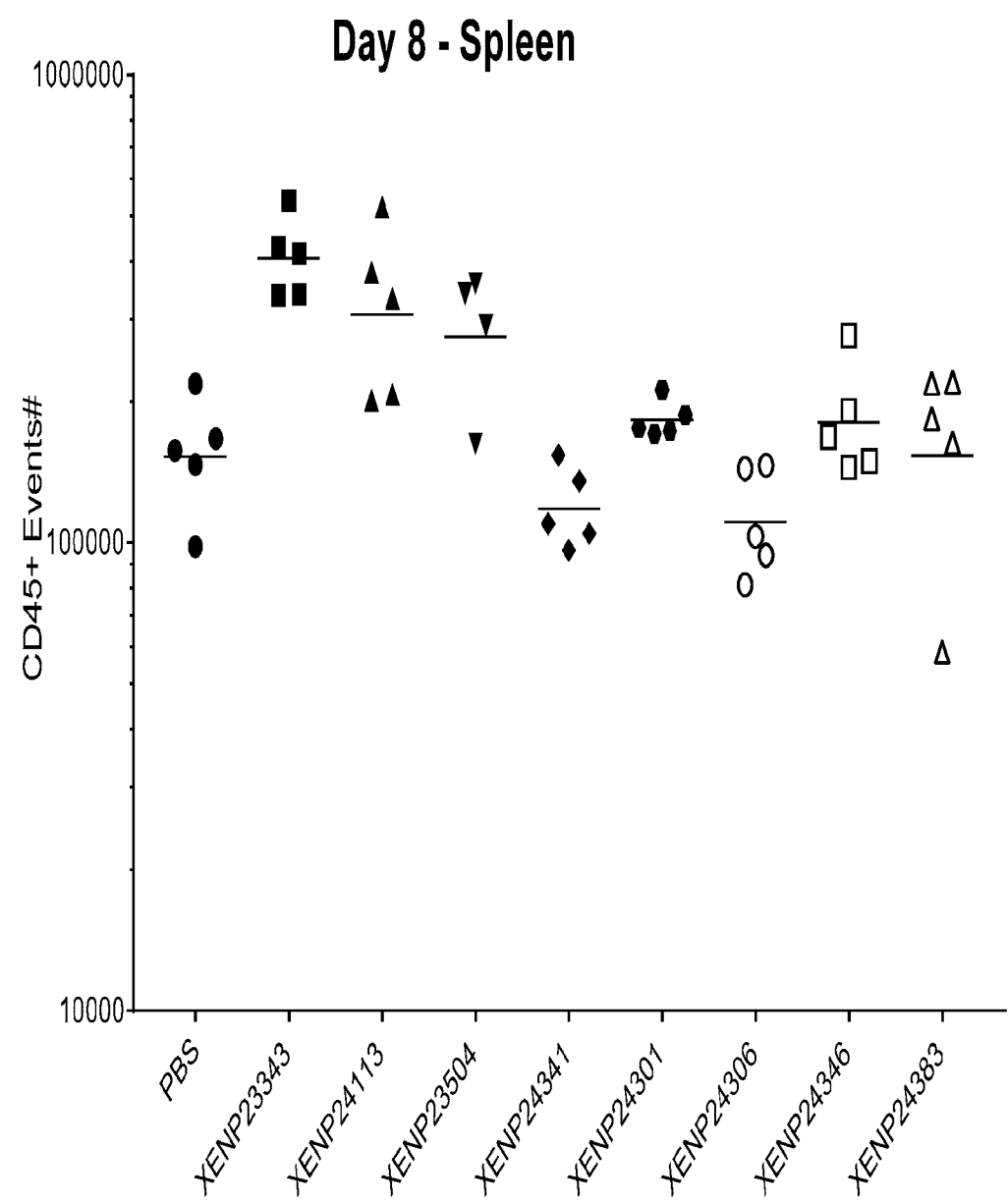


Figure 102A

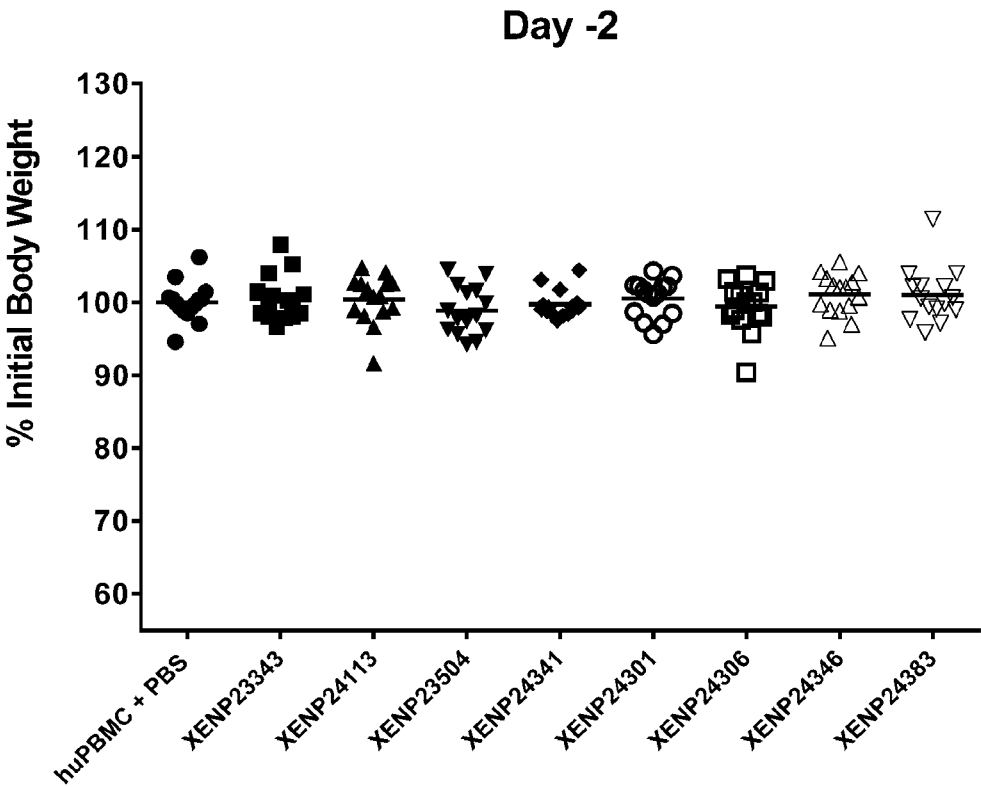


Figure 102B

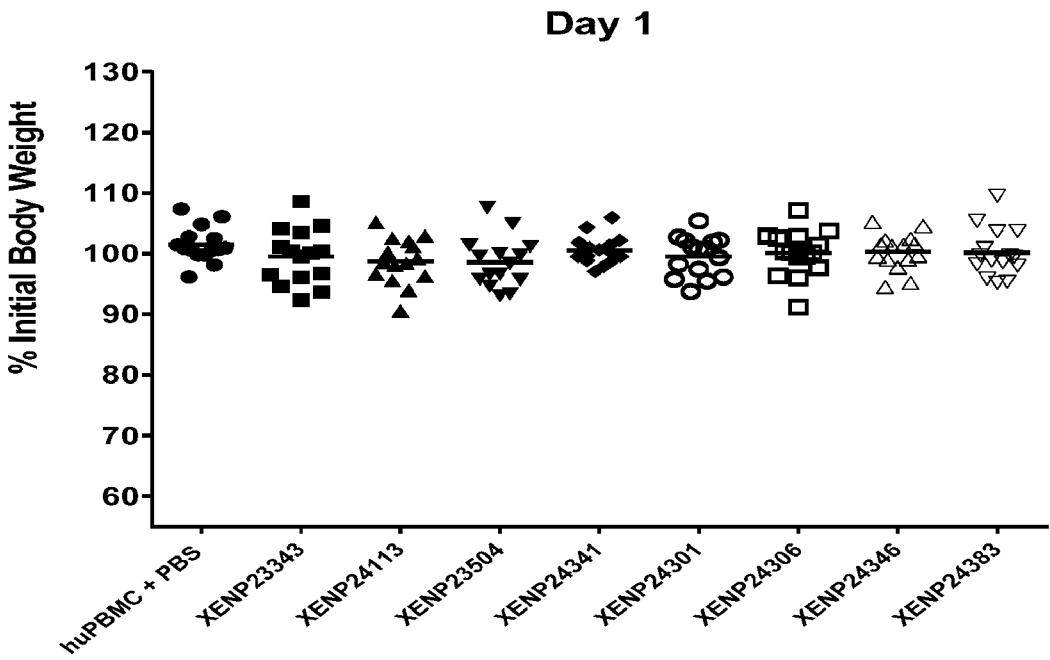


Figure 102C

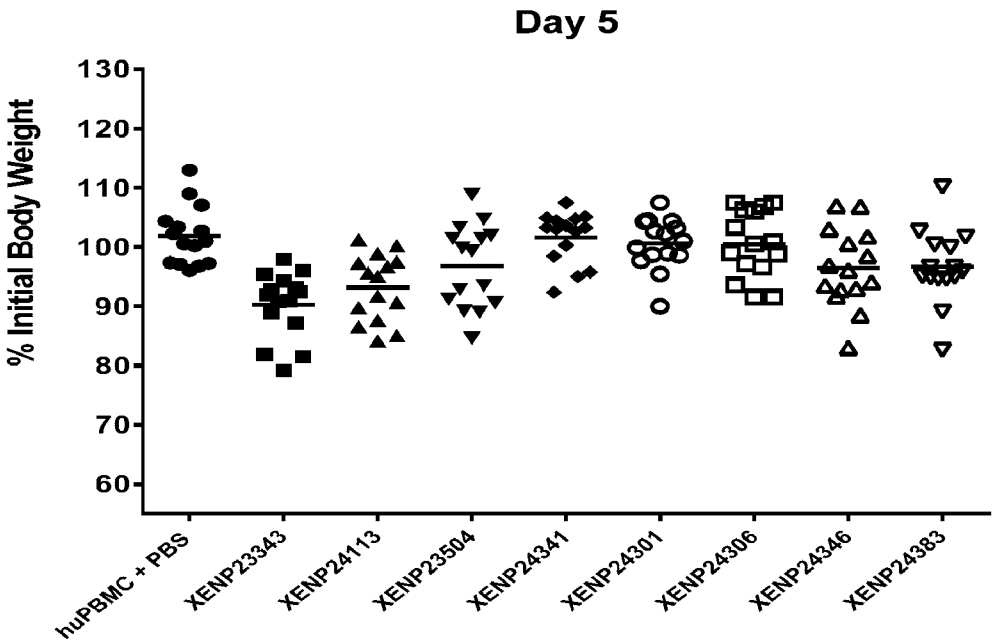


Figure 102D

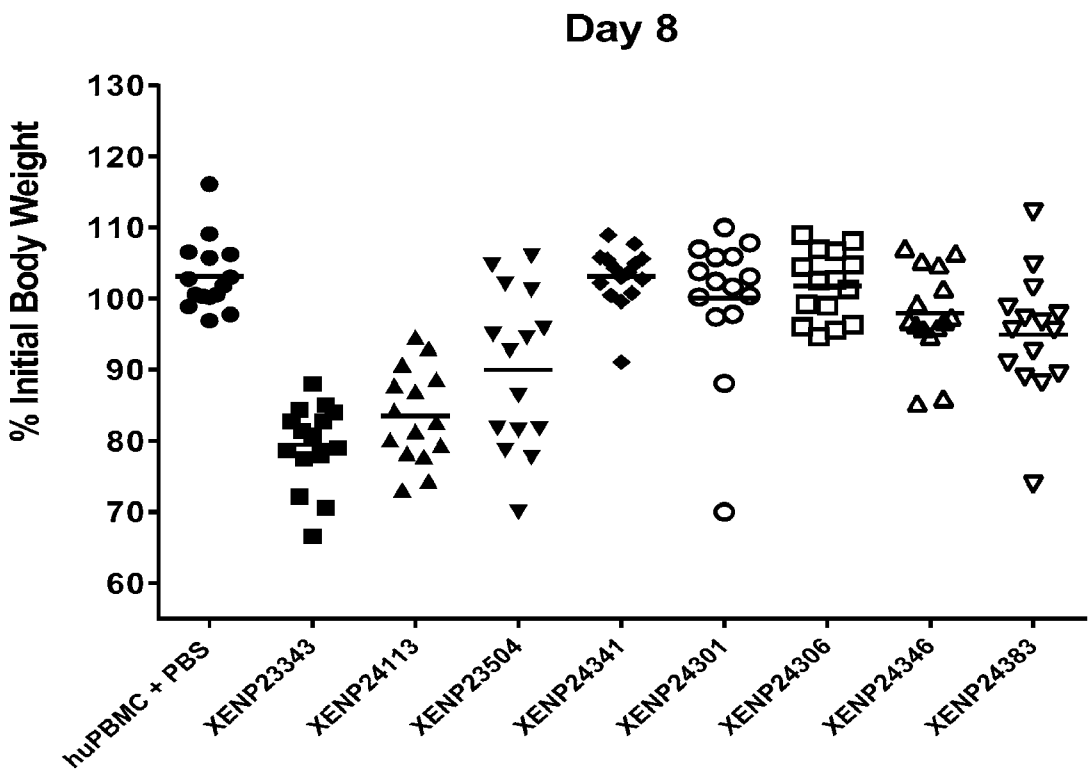


Figure 102E

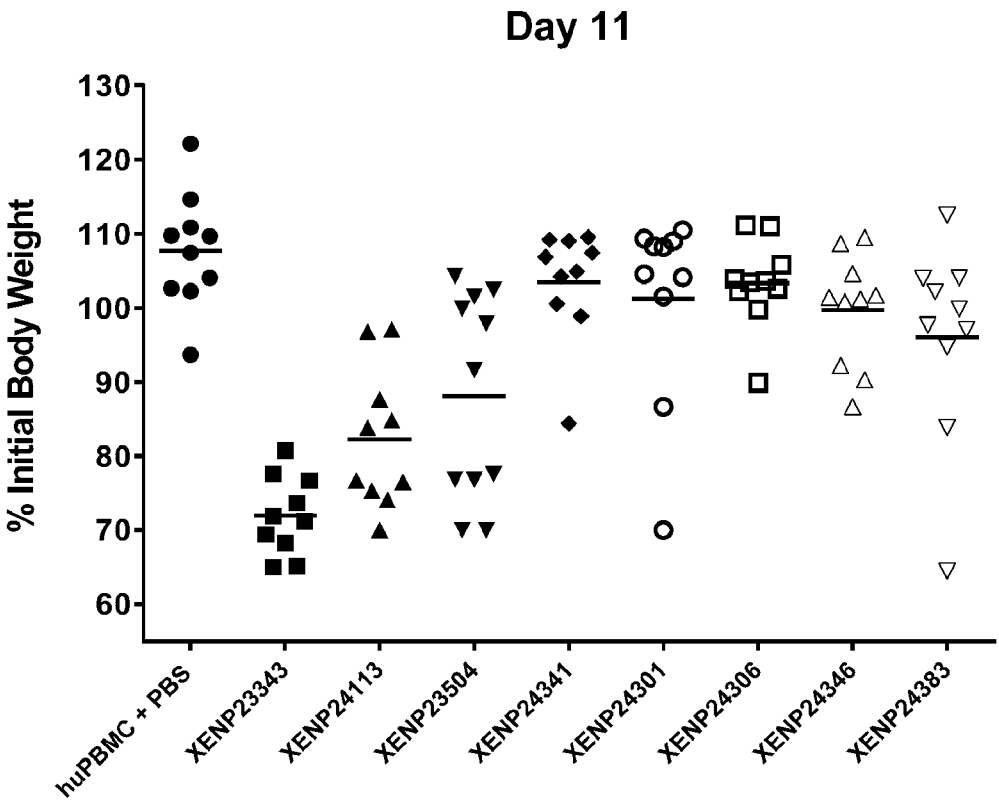
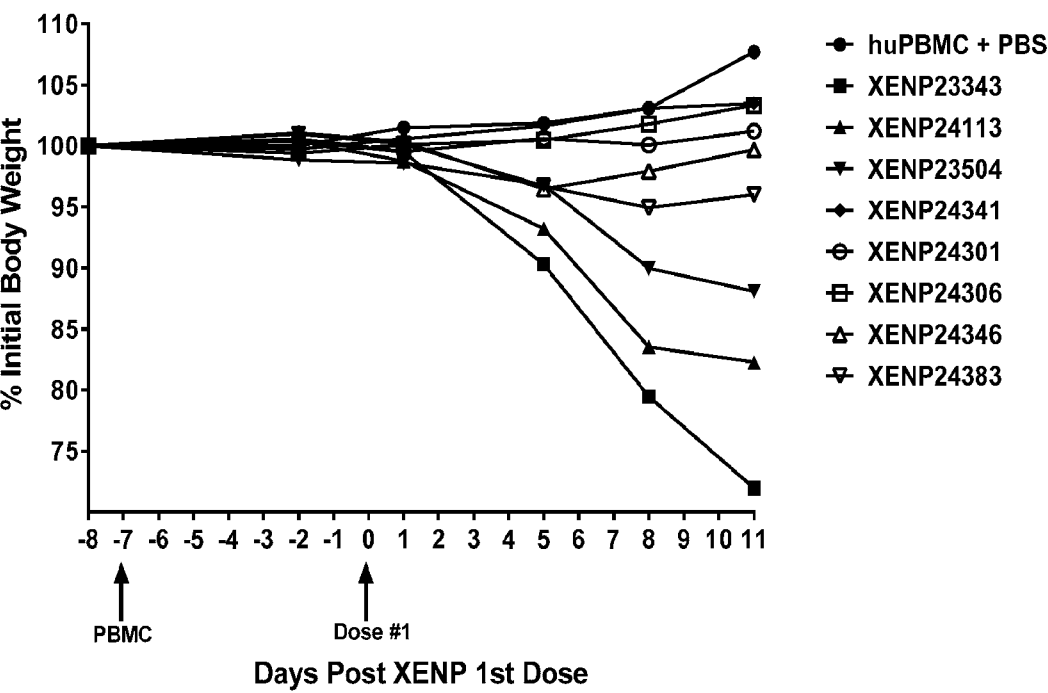


Figure 102F



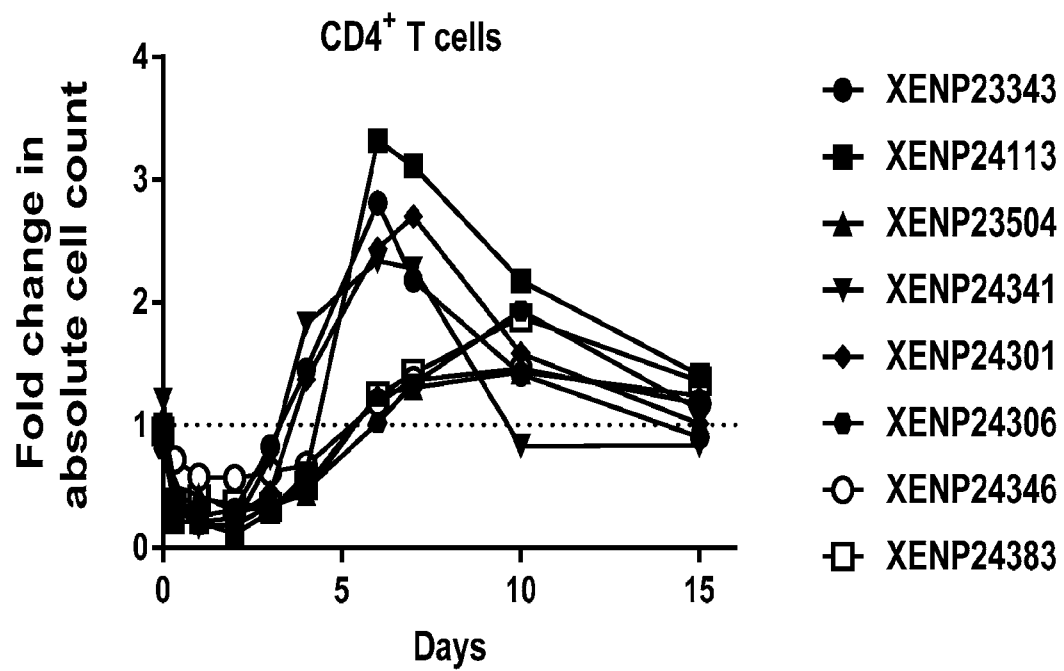
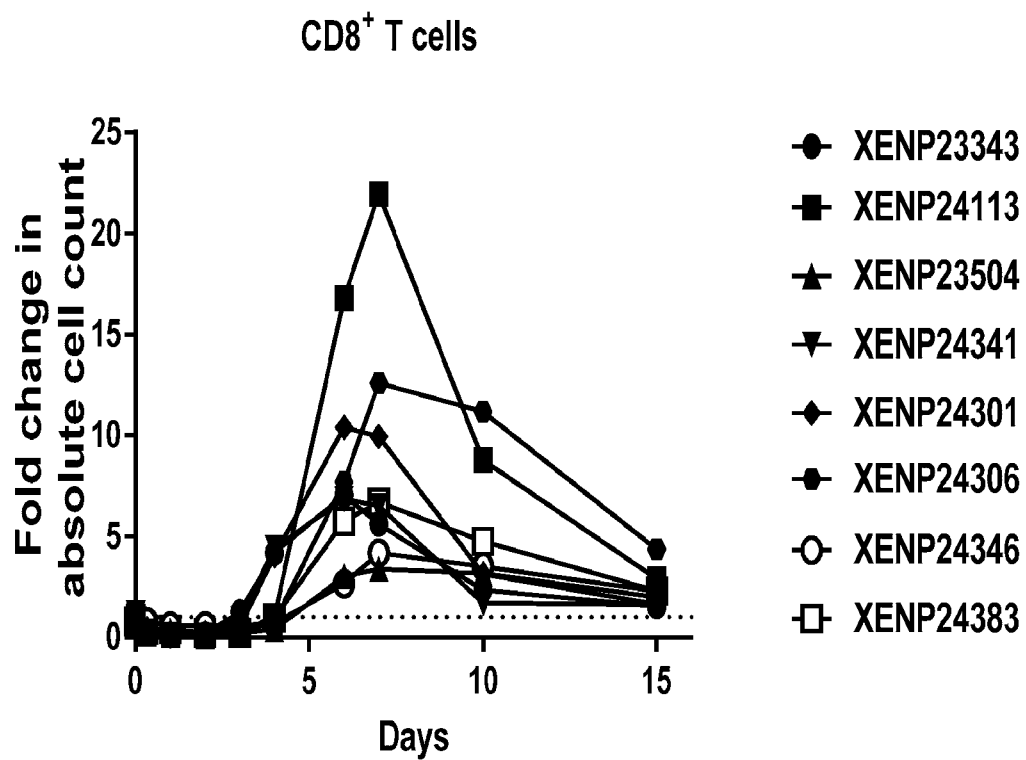


Figure 103C

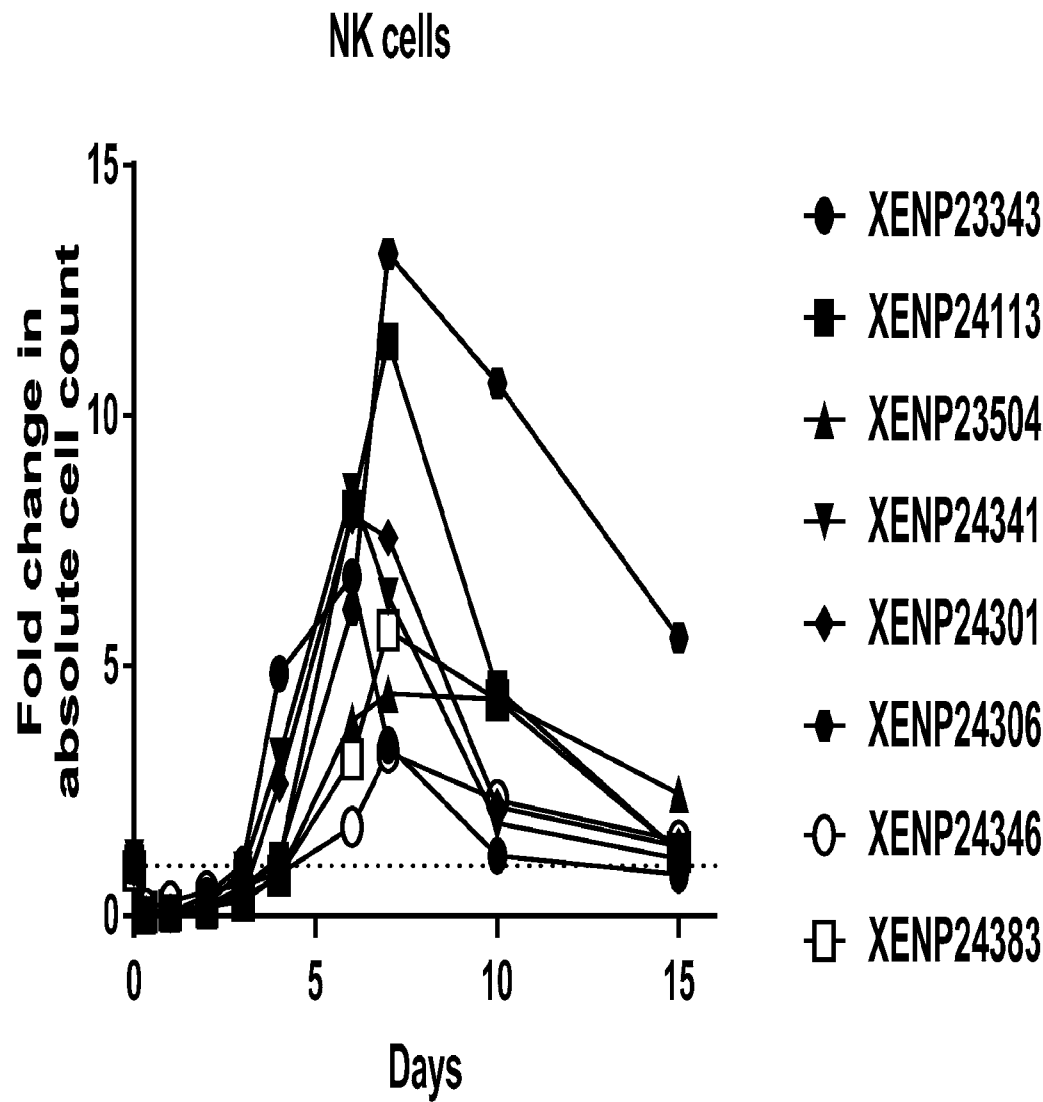


Figure 104A

>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
VTESGCKECELEEKNKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI
SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
LPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSF
FLYSKLTVDKSRWEQGDVFCFSVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSEVHADIVVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLKICIR/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
VTESGCKECELEEKNKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI
SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
LPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSF
FLYSKLTVDKSRWEQGDVFCFSVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSEVHADIVVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLKICIR/GGGSGGGGSG
GGSGGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDG
VEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQ
MTKNQVKLTCLVKGFYPSPDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEA
LHNHYTQKSLSLSPGK

Figure 104B

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

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLILANNSLSSNGNVTES
GCKECEELEEKNKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVK
HEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREP
QVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFS
CVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSEHADIWVKSYSLYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLSKCIR/GGGGS/EPKSSDKTHT
CPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSV
LTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFPYPSDIAVEWESNG
QPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

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

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLILANNSLSSNGNVTES
GCKECEELEEKNKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTC
VVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAK
GQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQ
GDVFCSCVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSEHADIWVKSYSLYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLSKCIR/EPKSSDKTHTCPPCPA
PPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQ
DWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFPYPSDIAVEWESNGQPENN
YKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

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

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLILANNSLSSNGNVTES
GCKECEELEEKNKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTC
VVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAK
GQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQ
GDVFCSCVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSEHADIWVKSYSLYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLSKCIR/GGGGSGGGGSGGGG
S/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
EQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFP
SDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

Figure 104C

>XENP21474 – human IL15 x human IL15R α (Sushi)-(GGGS)₄ Fc heterodimer

Chain 1 - human_IL15-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (16479) (SEQ ID NOS 442-444)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLILANNSLSSNGNVTES
GCKECEELEEKNKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVK
HEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREP
QVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEQGDVFC
SVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGGSGGGGSGGGG
SGGGG/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAK
TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCL
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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLILANNSLSSNGNVTES
GCKECEELEEKNKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVK
HEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREP
QVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEQGDVFC
SVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/EPKSSDKTHTCPPCPA
PPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQ
DWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPEN
YKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

>XENP21476 – human IL15-(GGGS)₂ x human IL15R α (Sushi)-(GGGS)₂ Fc heterodimer

Chain 1 - human_IL15_(GGGS)₂-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (16480) (SEQ ID NOS 454-456)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLILANNSLSSNGNVTES
GCKECEELEEKNKEFLQSFVHIVQMFINTS/GGGGSGGGG/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISR
TPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYCKVSNKALPAPIEK
TISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGGQPENNYKTPPVLDSDGSFFLYSKLTVDKS
RWEQGDVFCSCSVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGGSGGGG/EPKS
SDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNST
YRVVSVLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAV
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)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLIILANNSLSSNGN
VTESGCKECELEEKNKEFLQSFVHIVQMFINTS/GGGGSGGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKP
KDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYKCK
VSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGGQPENNYKTTTPVLD
SDGSFFLYSKLTVDKSRWEQGDVFSCVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLKCIR/GGGGSGGGGS
GGGSGGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDG
VEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQ
MTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCVMHEA
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)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPLKCIR/GGGGSGGGGS
GGGSGGGSGGGSGGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGD
ASIHDTVENLIILANNSLSSNGNVTESGCKECELEEKNKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVA
GPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQD
WLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGGQPE
NNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSCVMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPR
EEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCL
VKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCVMHEALHNHYTQKSLSL
SPGK

Figure 104E

>XENP21479 – empty-Fc-IL15(non-covalent)-human IL15R α (Sushi) Fc heterodimer**Chain 1 - human_IL15_no_tag (16484) (SEQ ID NO: 471)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGN
VTESGCKECELEEKNKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPR
 EEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDV
 SGFYPSDIAVEWESDGGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEQGDVFSCVMHEALHNHYTQKSLSLSP
 GK

Chain 3 - human_IL15R α (Sushi)-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (16481) (SEQ ID NOS 473-475)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTHTCP
 PCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV
 SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFYPSDIAVE
 WESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCVMHEALHNHYTQKSLSLSPGK

>XENP021978 – human IL15(non-covalent)-human IL15R α (Sushi) Fc(216) IgG1 C220S/PVA_/S267K**Chain 1 - human_IL15R α (Sushi)-Fc(216)_IgG1_C220S/PVA_/S267K (17023) (SEQ ID NOS 476-478)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCVMHEALHNHYTQKSLSLSPGK

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNKEFLQSFVHIVQMFINTS

>XENP021979 – human IL15 N72D (non-covalent)-human IL15R α (Sushi) Fc(216) IgG1 C220S/PVA_/S267K**Chain 1 - human_IL15R α (Sushi)-Fc(216)_IgG1_C220S/PVA_/S267K (17023) (SEQ ID NOS 480-482)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCVMHEALHNHYTQKSLSLSPGK

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANDSLS
SNGNVTESGCKECELEEKNKEFLQSFVHIVQMFINTS

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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDV FSCSVMEALHNHYTQKSLSLSPGK

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD/GGGGS/EP
KSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
EQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCL
VKGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSVMEALHNHYTQKSLSL
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)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDV FSCSVMEALHNHYTQKSLSLSPGK

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDP/GGGGS/E
PKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPR
EEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCL
LVKGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSVMEALHNHYTQKSLS
LSPGK

>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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDV FSCSVMEALHNHYTQKSLSLSPGK

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDP/GGGGS/
EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSVMEALHNHYTQKSLS
LSPGK

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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNLSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/ EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTT
 PVLDS DGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSEHADIWVKSYSLYSRERYICNSGFKRAGTSSLTECVLNKATNVAHWTTPSLKCIRDPA/EPKSSD
 KTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYN
 STYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGF
 YPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

>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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNLSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDS
 DGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSEHADIWVKSYSLYSRERYICNSGFKRAGTSSLTECVLNKATNVAHWTTPSLKCIRDPA/EPKSSD
 KTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYN
 STYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGF
 YPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

>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)

ITCPPPMSEHADIWVKSYSLYSRERYICNSGFKRAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGSGGGG
 SGGGSGGGGSGGGG/ NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDAS
 IHDTVENLIILANNLS SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ EPKSSDKTHTCPPCPAPP
 VAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVL
 HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESD
 GQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLS
 LSPGK

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)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGSGGGSGGGSGGGG
S/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVLSLESGDASIHDTVENLIILANNSLSSNGNV
TESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHE
DPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPS
REEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQK
SLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYR
VVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVCLTCLVKGFYPSDIAVEWESNGQ
PENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

**>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)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR/GGGSGGGSGGGGS/NWV
NVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVLSLESGDASIHDTVENLIILANNSLSSNGNVTESGCKE
CEELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVK
FNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMT
KNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSL
PGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYR
VVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVCLTCLVKGFYPSDIAVEWESNGQ
PENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

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

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVLSLESGDASIHDTVENLIILAN
NSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR

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

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVLSLESGDASIHDTVENLIILAN
NSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIRD

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)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCCKVTAMKCFLLLELQVISLES
GDASIHDTVENLII
LANNSSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD
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)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCCKVTAMKCFLLLELQVISLES
GDASIHDTVENLII
LANNSSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD
PA

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCCKVTAMKCFLLLELQVISLES
GDASIHDTVENLII
LANNSSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD
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)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCCKVTAMKCFLLLELQVISLES
GDASIHDTVENLII
LANNSSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD
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)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCCKVTAMKCFLLLELQVISLES
GDASIHDTVENLII
LANNSSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD
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
LANNSSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTTPSLKCIR

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES
GDASIHDTVENLII
LANNSSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTTPSLKCIR

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES
GDASIHDTVENLII
LANNSSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFCRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELCVISLES
GDASIHDTVENLII
LANNSSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKACTSSLTECVLNKATNVAHWTTPSLKCIR

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLCS
GDASIHDTVENLII
LANNSSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSCTECVLNKA
TNVAHWTTPSLKCIR

Figure 104K

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKSFLELQVISLESQDASIHDTVENLIILANNSSLSNGNV
TESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRCKGTSSLTECVLNKATNVAHWTTPSLKCIIR

>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)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLESQDASIHDTVENLIILANNSSLSNGNV
TESGCKCEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISR
TPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT
ISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTPPVLDSDGSFFLYSKLTVDKS
RWEQGDVFSQSVMEALHNHYTQKSLSLSPGK

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

ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRAGTSSLTECVLNKATNVAHWTTPSLKCIIRD/C/GGGGS/EPKSSD
KTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRV
VSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGIFYPSDIAVEWE
SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSPGK

>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)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLESQDASIHDTVENLIILANNSSLSNGNV
TESGCKCEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISR
TPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT
ISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTPPVLDSDGSFFLYSKLTVDKS
RWEQGDVFSQSVMEALHNHYTQKSLSLSPGK

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

ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRAGTSSLTECVLNKATNVAHWTTPSLKCIIRD/C/GGGGS/EPKSS
DKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYR
VSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGIFYPSDIAVEW
ESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLSLSPGK

Figure 104K (continued)

>XENP022015human_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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNV
TESGCKCCEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISR
TPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT
ISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDS DGSFFLYSKLTVDKS
RWEQGDVFSCSVMEALHNHYTQKSLSLSPGK

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

ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCI RDCA/GGGGS/EPKSS
DKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPETCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYR
VSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQV KLTVLKG FYPSDIAVEW
ESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSCSVMEALHNHYTQKSLSLSPGK

Figure 104L

**>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 573-575)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISCESGDASIHDTVENLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKF
NWYVDGVEVHNATKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
TCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGDVFSCVMHEALHNHYTQKSLSLSPGK

**Chain 2 – human_IL15Ra(Sushi-S40C)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID
NOS 576-578)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTCSLTCVLNKATNVAHWTTPSLKCIR/GGGGS/EPKSSDKTHTCPPCPAPP
VAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNATKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVS
NKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDK
SRWQQGNVFSCVMHEALHNHYTQKSLSLSPGK

>XENP022049 - human IL15Ra(sushi) (GGGGS)6-human IL15-sc-6x-His

Chain 1 - human_IL15Ra(sushi)_(GGGGS)6-human_IL15-sc-6x-His (17032) (SEQ ID NOS 579-581)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
SGGGGSGGGGSGGGGSGGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLE
SGDASIHDTVENLIILANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

**>XENP022354 – empty-Fc-IL15(non-covalent)-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_no_tag (16484) (SEQ ID NO: 582)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (8793) (SEQ ID NO: 583)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNATKPRE
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGDVFSCVMHEALHNHYTQKSLS
LSPGK

**Chain 3 - human_IL15Ra(Sushi-D96)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (17034)
(SEQ ID NOS 584-586)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSSLTECVLNKATNVAHWTTPSLKCIRD/GGGGS/EP
KSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNATKPRE
EQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCL
VKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCVMHEALHNHYTQKSLSL
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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDFVSCSMHEALHNHYTQKSLS
SLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDPA/GGGGS/
EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDFVSCSMHEALHNHYTQKSLS
SLSPGK

>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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDFVSCSMHEALHNHYTQKSLS
SLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDPA/GGGGS/
EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDFVSCSMHEALHNHYTQKSLS
SLSPGK

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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVENLIILANNLSL
SNGNVTESGCKCCEELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDFVSCVMHEALHNHYTQKSLS
SLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD C/GGGGS/E
PKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
EEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREOMTKNQVSLT
LVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCVMHEALHNHYTQKSLS
SLSPGK

>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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVENLIILANNLSL
SNGNVTESGCKCCEELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDFVSCVMHEALHNHYTQKSLS
SLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDPC/GGGGS/
EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREOMTKNQVSLT
CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCVMHEALHNHYTQKSLS
SLSPGK

Figure 104O

>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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKCEELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVDFSCVMHEALHNHYTQKSLS
SLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDCA/GGGGS/
EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREOMTKNQVSLT
CLVKGFIYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVDFSCVMHEALHNHYTQKSLS
SLSPGK

>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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQCISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKEECELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVDFSCVMHEALHNHYTQKSLS
SLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREOMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVDFSCVMHEALHNHYTQKSLSLS
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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISCESGDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVFSFSVMHEALHNHYTQKSLS
SLSPGK

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSFSVMHEALHNHYTQKSLSLS
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 GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVFSFSVMHEALHNHYTQKSLS
SLSPGK

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFCRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSFSVMHEALHNHYTQKSLSLS
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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLCSGDASIHTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVFSFSVMHEALHNHYTQKSLS
SLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKACTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSFSVMHEALHNHYTQKSLSLS
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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLCSGDASIHTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVFSFSVMHEALHNHYTQKSLS
SLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSCTECVLNKAATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSFSVMHEALHNHYTQKSLSLS
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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKSFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINITS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVFSFSVMHEALHNHYTQKSLS
SLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRCKGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSFSVMHEALHNHYTQKSLSLS
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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINITS

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDVFSFSVMHEALHNHYTQKSLS
SLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/ EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSFSVMHEALHNHYTQKSLSLS
PGK

>XENP022493 - human IL15_L45C-human IL15Ra(Sushi-G38C)-6x-His

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINITS

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKACTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 104S

>XENP022494 – human IL15 L45C-human IL15Ra(Sushi-A37C)-6x-His**Chain 1 - human_IL15_L45C_no_tag (17069) (SEQ ID NO: 649)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKCGTSSLTECVLNKATNVAHWTTPSLKCIR

>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)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDCE/EPKSSDK
THTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFY
PSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK
(SEQ ID NOS 651-653)

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

>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)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDCA/EPKSSD
KHTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYN
STYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGF
YPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

>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)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTCSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

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

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISCESGDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

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
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGDFVSCVMHEALHNHYTQKSL
SLSPGK/ GGGSGGGGS/ITCPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHW
TPSLKCIR

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

ERKSSDKTHTCPRCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFKWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCVMHEALHNHYTQKSL
SLSPGK

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

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

>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)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVL
TVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGGQPENNYKTTPP
VLDSDGSFFLYSKLTVDKSRWQQGNVFCVMHEALHNHYTQKSLSLSPGK

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

ERKSSDKTHTCPRCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFKWYVDGVEVHNAKTKPREEQYNSTYRVVSVL
TVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTPP
VLDSDGSFFLYSKLTVDKSRWQQGNVFCVMHEALHNHYTQKSLSLSPGK/ GGGSGGGGS/ITCPPMSVEHADIWVKSYSLSYRERY
ICNSGFKRKAGTSSLTECVLNKATNVAHWTPSLKCIR

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)

EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDFVSCVMHEALHNHYTQKSL
SLSPGK/GGGSGGGGS/ITCPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHW
TPSLKCIDRC

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

ERKSSDKTHTCPRCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFKWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGIFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVDFSCVMHEALHNHYTQKSL
SLSPGK

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

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKCCEELEEKNIKEFLQSFVHIVQMFINTS

>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)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKCCEELEEKNIKEFLQSFVHIVQMFINTS

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

EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDFVSCVMHEALHNHYTQKSL
SLSPGK

>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)

NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKCCEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWITPSLKCIDRC/EPKSSDKTHTCPPCAPPVAG
PSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKAL
PAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGIFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW
QQGNVDFSCVMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVL
TVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
VLDSDGSFFLYSKLTVDKSRWQQGDFVSCVMHEALHNHYTQKSLSLSPGK

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)**

NWNVVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNVTESGCKCCEE
LEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDCA/EPKSSDKTHTC?PCPAPPVAG
PSVFLFPKPKDTLMI SRTPEVTCVVDVKHEDPEVKFNWYVDGEVHNATKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
LPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRW
QQGNVFSCSVMHEALHNHYTQKSLSLSPGK

>XENP022791 - human IL15 N1D(non-covalent)-human IL15Ra(Sushi)-6x-His**Chain 1 - human_IL15_N1D(non-covalent) (17666) (SEQ ID NO: 689)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

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)**

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

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)**

NWNVVISNLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

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)**

NWNVVISDLKKIEDLIQSMHIDATLYTESNVHPSCVKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 104W

>XENP022795 - human IL15 D61N(non-covalent)-human IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_D61N(non-covalent) (17670) (SEQ ID NO: 697)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHNTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15R α (Sushi)-6x-His (17033) (SEQ ID NO: 698)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022796 - human IL15 E64Q(non-covalent)-human IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_E64Q(non-covalent) (17671) (SEQ ID NO: 699)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15R α (Sushi)-6x-His (17033) (SEQ ID NO: 700)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022801 - human IL15 N65D(non-covalent)-human IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_N65D(non-covalent) (17672) (SEQ ID NO: 701)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15R α (Sushi)-6x-His (17033) (SEQ ID NO: 702)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022802 - human IL15 Q108E(non-covalent)-human IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_Q108E(non-covalent) (17673) (SEQ ID NO: 703)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15R α (Sushi)-6x-His (17033) (SEQ ID NO: 704)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022803 - human IL15 N1D/D61N(non-covalent)-human IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_N1D/D61N(non-covalent) (17674) (SEQ ID NO: 705)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHNTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15R α (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)**

DWVNVI SDLKKE DLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

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)**

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHNTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

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)**

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

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)**

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHNTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

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)**

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 104Y

>XENP022809 - human IL15 D61N/E64Q(non-covalent)-human IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_D61N/E64Q(non-covalent) (17680) (SEQ ID NO: 717)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQNLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15R α (Sushi)-6x-His (17033) (SEQ ID NO: 718)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022810 - human IL15 E64Q/Q108E(non-covalent)-human IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_E64Q/Q108E(non-covalent) (17681) (SEQ ID NO: 719)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQNLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS

Chain 2 - human_IL15R α (Sushi)-6x-His (17033) (SEQ ID NO: 720)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022811 - human IL15 N1D/N4D/D8N(non-covalent)-human IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_N1D/N4D/D8N(non-covalent) (17682) (SEQ ID NO: 721)**

DWVDVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVENLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15R α (Sushi)-6x-His (17033) (SEQ ID NO: 722)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022812 - human IL15 D61N/E64Q/N65D(non-covalent)-human IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_D61N/E64Q/N65D(non-covalent) (17683) (SEQ ID NO: 723)**

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQDLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15R α (Sushi)-6x-His (17033) (SEQ ID NO: 724)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

>XENP022813 - human IL15 N1D/D61N/E64Q/Q108E(non-covalent)-human IL15R α (Sushi)-6x-His**Chain 1 - human_IL15_N1D/D61N/E64Q/Q108E(non-covalent) (17684) (SEQ ID NO: 725)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQNLIILANNSLS
SNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS

Chain 2 - human_IL15R α (Sushi)-6x-His (17033) (SEQ ID NO: 726)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

Figure 104Z

>XENP022814 - human IL15 N4D/D61N/E64Q/Q108E(non-covalent)-human IL15Rα(Sushi)-6x-His**Chain 1 - human_IL15_N4D/D61N/E64Q/Q108E(non-covalent) (17685) (SEQ ID NO: 727)**

NWVDVLSDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHNTVQNLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Rα(Sushi)-6x-His (17033) (SEQ ID NO: 728)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

**>XENP022815 - human IL15 N1D (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_(GGGGS)₁ (17686) (SEQ ID NOS 729-731)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS /GGGGS /EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTP
PVLDSGDSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

**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 732-734)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR /GGGGS /EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTPPVLDSGDSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

**>XENP022816 - human IL15 N4D (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_(GGGGS)₁ (17687) (SEQ ID NOS 735-737)**

NWVDVLSDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS /GGGGS /EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTP
PVLDSGDSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

**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 738-740)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR /GGGGS /EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTPPVLDSGDSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

Figure 104AA

>XENP022817 - human IL15 D8N (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_(GGGGS)₁ (17688) (SEQ ID NOS 741-743)

NWVNVI SNLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHD TVENLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS /GGGGS /EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDV FSCSVMHEALHNHYTQKSLSLSPGK

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 744-746)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR /GGGGS /EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSVMHEALHNHYTQKSLSLSPGK

>XENP022818 - human IL15 D30N (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_D30N_(GGGGS)₁ (17689) (SEQ ID NOS 747-749)

NWVNVI SDLKKIEDLIQSMHIDATLYTESNVHPSCVTAMKCFLELQVISLES GDASIHD TVENLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS /GGGGS /EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDV FSCSVMHEALHNHYTQKSLSLSPGK

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 750-752)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR /GGGGS /EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVKLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSVMHEALHNHYTQKSLSLSPGK

Figure 104AB

>XENP022819 - human IL15_D61N (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_(GGGGS)₁ (17690) (SEQ ID NOS 753-755)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHTVENVLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDSGDSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

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 756-758)

ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSPGK

>XENP022820 - human IL15_E64Q (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_E64Q_(GGGGS)₁ (17691) (SEQ ID NOS 759-761)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVQNLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDSGDSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

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 762-764)

ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSPGK

>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 765-767)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/ GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDSGDSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

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 768-770)

ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/ GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSPGK

Figure 104AC

>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 771-773)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/GGGGS/EPKSSDKTHTCPPCPAPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDS DGSFFLYSKLTVDKSRWEQGDVFSCSVMHEALHNHYTQKSLSLSPGK

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 774-776)

ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPCPAPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

>XENP022823 - human IL15 N1D/D61N (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_(GGGGS)₁ (17694) (SEQ ID NOS 777-779)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHNTVENLIILANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDS DGSFFLYSKLTVDKSRWEQGDVFSCSVMHEALHNHYTQKSLSLSPGK

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 780-782)

ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPCPAPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

>XENP022824 - human IL15 N1D/E64Q (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/E64Q_(GGGGS)₁ (17695) (SEQ ID NOS 783-785)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKTAMKCFLELQVISLES GDASIHDTVQNLIILANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTK?REEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDS DGSFFLYSKLTVDKSRWEQGDVFSCSVMHEALHNHYTQKSLSLSPGK

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 786-788)

ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPCPAPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

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)

NWVDVLSDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVENLIILANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDSGDSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

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)

ITCPPPMSEVHADIVWKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSPGK

>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)

NWVDVLSDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQNLIILANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDSGDSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

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)

ITCPPPMSEVHADIVWKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSPGK

>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)

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVENLIILANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDSGDSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

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)

ITCPPPMSEVHADIVWKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSPGK

Figure 104AE

>XENP022828 - human IL15 D8N/E64Q (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/E64Q_(GGGGS)₁ (17699) (SEQ ID NOS 807-809)

NWVNVI SNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDVFSCSVMEALHNHYTQKSLSLSPGK

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 810-812)

ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVSCSVMEALHNHYTQKSLSLSPGK

>XENP022829 - human IL15 D61N/E64Q (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_(GGGGS)₁ (17700) (SEQ ID NOS 813-815)

NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQNLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDVFSCSVMEALHNHYTQKSLSLSPGK

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 816-818)

ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVSCSVMEALHNHYTQKSLSLSPGK

>XENP022830 - human IL15 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_E64Q/Q108E_(GGGGS)₁ (17701) (SEQ ID NOS 819-821)

NWVNVI SDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDVFSCSVMEALHNHYTQKSLSLSPGK

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 822-824)

ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVSCSVMEALHNHYTQKSLSLSPGK

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 GDASIHDTVENLII
LANNSSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS /GGGGS /EPKSSDKTHTCPPCP
APPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNST
YRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCL
DVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSFSVMHEALHNH
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)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR /GG
GGG /EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVD
GVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREQMTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSR
WQQGNVFSCFSVMHEALHNHYTQKSLSLSPGK

>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
LANNSSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS /GGGGS /EPKSSDKTHTCPPCP
APPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNST
YRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCL
DVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSFSVMHEALHNH
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)**

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR /GG
GGG /EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVD
GVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREQMTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSR
WQQGNVFSCFSVMHEALHNHYTQKSLSLSPGK

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 GDASIHNTVQNLII
LANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/GGGGS/EPKSSDKTHTCPPCP
APPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNST
YRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCL
DVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVDFSCSVMEALHNH
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)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVDFSCSVMEALHNHYTQKSLSL
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_(GGGGG)₁ (17705) (SEQ ID NOS 843-845)

NWVDVI SDLKKEID LQSMHIDATLYTESDVHPSCVKVTAMKCFLLLEQVISLES GDASIHNTVQNLIILANNLSL
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/ GGGGS/EPKSSDKTHTCPPCPAPVAGPSVFLFPP
 KP KDTLMISRTPEVTVCVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAQGGQPREPQVYTLPPSREEMTKNQVSLTCTDVSFGFSPDIAVEWESDGOFPENNYKTPP
 PVLDS DGSFFLYSKLTVDKSRWEEQGVDFVCSVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Rα(Sushi)_(GGGS)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)

ITC P P P M S V E H A D I W K V S Y S L Y S R R E Y I C N S G F K R K A G T S S L T E C V L N K A T N V A H W T T P S L K C I R / G G G G S / E P K
S S D K T H T C P P C P A P P V A G P S V F L F P P K P K D T L M I S R T P E V T C V V V D V K H E D E V K E N W Y V D G V E V H N A K T K P R E E
Q Y N S T Y R V V S V L T V L H Q D W L N G K E Y K C K V S N K A L P A I E K T I S K A K G Q P R E P Q V Y T L P P S R E Q M T K N Q V K L T C L V
K G F Y P S D I A V E W E S N G Q P E N N Y K T T P V L D S D G S F F L Y S K L T V D K S R W Q Q G N V F S C S V M H E A L H N H Y T Q K S L S L S
P G K

>XENP023174 human_IL15Ra(sushi) (GKPGS)6-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)_(GKPGS)6-human_IL15(single-chain)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 849-852)

[illegible]

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 853)

EPKSSDKTHTCTPPCPAPPVAGPSVFLFP>PKPDTLMI SRTPEVTCVVDVKHED>EVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVL
TVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMITKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTP
VLDSDGSFFLYSKLTVDKSPWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

>XENP023175 human IL15Ra(sushi) (GKPGS)5-human IL15(single-chain)-empty-Fc Fc(216) IgG1 (pI=7.2) Isosteric A C220S/PVA /S267K/L368D/K370S-Fc(216) IgG1 C220S/PVA /S267K/S364K/E357Q

Chain 1 - human_IL15Ra(sushi)_(GKPGS)5-human_IL15(single-chain)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 854-857)

[illegible]

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 858)

EPKSSDKTHTCPPCPAPPVAGPSVFLFP>PKPDTLMI SRTPEVTCVWVDVKHED>EVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVL
TVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMITKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPP
VLDSDGSFFLYSKLTVDKSRPWOOGNVFSCSVMHEALHNHYTOKLSLSLSPGK

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)
 NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDSDGSFFLYSKLTVDKSRWEQGDVFSVCSVLHEALHSHYTQKSLSLSPGK

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

>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)
 EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSVCSVMHEALHNHYTQKSL
 SLSPGK

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

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

Figure 104A1

>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
 REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWEEQGDVFSQVMHEALHNHYTQKSLS
 LSPGK

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

Chain 3 - IL15Ra(Sushi-S40C)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 872-874)
 ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTCSLTCVNLKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSPGK

>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)
 NWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLESQDASIHDTVENLIILANNSLS
 SNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS/GGGGS/EPKSSDKTHTCPPCAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDSGDSFFLYSKLTVDKSRWEEQGDVFSQVMHEALHSHYTQKSLSLSPGK

Chain 2 – human_IL15Ra(Sushi) (GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S
 (SEQ ID NOS 878-880)
 ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTCEVNLKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPPCAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFSQVMHEALHSHYTQKSLSLS
 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)
 DWNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLESQDASIHDTVEDLIILANNSLS
 SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDSGDSFFLYSKLTVDKSRWEEQGDVFSQVMHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi) (GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908) (SEQ ID
 NOS 884-886)
 ITCPPPMSEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTCEVNLKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPPCAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLS
 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)
DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDV FSCSVMEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908) (SEQ ID NOS 890-892)
ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSVMEALHNHYTQKSLSLSPGK

>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)
NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVEDLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDV FSCSVMEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908) (SEQ ID NOS 896-898)
ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSVMEALHNHYTQKSLSLSPGK

>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)
NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCVTAMKCFLELQVISLES GDASIHDTVEDLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINITS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
PVLDS DGSFFLYSKLTVDKSRWEQGDV FSCSVMEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (15908) (SEQ ID NOS 902-904)
ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSVMEALHNHYTQKSLSLSPGK

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)
 NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
 SNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDS DGSFFLYSKLTVDKSRWEQGDV FSCSV MHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS
 908-910)
 ITCPPPMSEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGK

>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)
 NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLS
 SNGNVTESGCKECELEEKNIKEFLQSFVHIVEMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDS DGSFFLYSKLTVDKSRWEQGDV FSCSV MHEALHNHYTQKSLSLSPGK

Chain 2 - human_IL15Ra(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS
 914-916)
 ITCPPPMSEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPKSSDKTHTCP
 PCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV
 SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIA
 VEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGK

>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)
 ITCPPPMSEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
 SGGGSGGGGSGGGG/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDAS
 IHNTVENLIILANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINITS/EPKSSDKTHTCPPCPAPP
 VAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVL
 HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESD
 GPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWEQGDV FSCSV MHEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 921)
 EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGK

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)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
 SGGGSGGGGSGGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES
 GDASIHDTVEDLIILANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTC
 PPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEY
 NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
 TCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFS
 CSMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREOMTKNQV
 KLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS
 CSMHEALHNHYTQKSLSLSPGK

>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)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
 SGGGSGGGGSGGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES
 GDASIHDTVENLIILANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS/EPKSSDKTHTC
 PPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEY
 NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
 TCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFS
 CSMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREOMTKNQV
 KLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS
 CSMHEALHNHYTQKSLSLSPGK

>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)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
 SGGGSGGGGSGGGGS/DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES
 GDASIHNTVENLIILANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTC
 PPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEY
 NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
 TCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFS
 CSMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREOMTKNQV
 KLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS
 CSMHEALHNHYTQKSLSLSPGK

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~~SD~~LKKI~~ED~~LIQSMHIDATLYTESDVHPSCVTAMKCF~~LLE~~LQVISLES~~GD~~ASIHNTVENLIILANNSLS
SNGNVTESGCKE~~CE~~ELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
ALPAPIEKTI~~SK~~AKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTPVLDS
GSFFLYSKLTVDKSRWEQGDVFS~~CS~~VMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI~~S~~RTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI~~SK~~AKGQPREPQVYTLPPSREQMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDS~~GS~~FFLYSKLTVDKSRWQGNVFS~~CS~~VMHEALHNHYTQKSLSLSPGK

>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~~SD~~LKKI~~ED~~LIQSMHIDATLYTESDVHPSCVTAMKCF~~LLE~~LQVISLES~~GD~~ASIH~~DT~~VEDLIILANNSLS
SNGNVTESGCKE~~CE~~ELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
ALPAPIEKTI~~SK~~AKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTPVLDS
GSFFLYSKLTVDKSRWEQGDVFS~~CS~~VMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI~~S~~RTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI~~SK~~AKGQPREPQVYTLPPSREQMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDS~~GS~~FFLYSKLTVDKSRWQGNVFS~~CS~~VMHEALHNHYTQKSLSLSPGK

>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~~SD~~LKKI~~ED~~LIQSMHIDATLYTESDVHPSCVTAMKCF~~LLE~~LQVISLES~~GD~~ASIH~~DT~~VENLIILANNSLS
SNGNVTESGCKE~~CE~~ELEEKNIKEFLQSFVHIVEMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
ALPAPIEKTI~~SK~~AKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTPVLDS
GSFFLYSKLTVDKSRWEQGDVFS~~CS~~VMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI~~S~~RTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI~~SK~~AKGQPREPQVYTLPPSREQMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDS~~GS~~FFLYSKLTVDKSRWQGNVFS~~CS~~VMHEALHNHYTQKSLSLSPGK

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)

DWVNVI SDLKKEI EDLIQSMHIDATLYTESDVHP SCKVTAMKCFLELQVISLES GDASIHNTVENLIILANN SLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSD
 GSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

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

ITCPPPM SVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTHT
 TCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

>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)

NWVNVI SDLKKEI EDLIQSMHIDATLYTESDVHP SCKVTAMKCFLELQVISLES GDASIHDTVQDLIILANN SLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDSDGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

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

ITCPPPM SVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
 EYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSL
 PGK

>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)

DWVDVI SDLKKEI EDLIQSMHIDATLYTESDVHP SCKVTAMKCFLELQVISLES GDASIHDTVEDLIILANN SLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 PVLDSDGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

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)

ITCPPPM SVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
 EYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSL
 PGK

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)
 NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCVTAMKCFLELQVISLES GDASIHDTVQDLIILANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPCPAPPVAGPSVFLFPP
 KPKDTLMISRTP EVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTT
 PVLDS DGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

Chain 2 – human_IL15Rα(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS
 976-978)
 ITCPPPMSEVHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMISRTP EVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

>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)
 NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHNTVEDLIILANNLS
 SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPCPAPPVAGPSVFLFPP
 KPKDTLMISRTP EVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTT
 PVLDS DGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

Chain 2 – human_IL15Rα(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS
 982-984)
 ITCPPPMSEVHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPCPAPPVAGPSVFLFPPKPKDTLMISRTP EVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREE
 QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV
 KGFYPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHYTQKSLSLSPGK

>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)
 ITCPPPMSEVHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGSGGGG
 SGGGSGGGGSGGGGS/NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDAS
 IHDTVEDLIILANNLS SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPCPAPP
 VAGPSVFLFPPKPKDTLMISRTP EVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVL
 HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESD
 GPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWEQGDVFS CSVMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVVFSCSMHEALHNHYTQKSL
SLSPGK

Figure 104AP

>XENP024051 human IL15_N1D/N65D-human IL15Rα(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)
 DWVNVI~~SD~~LKKI~~ED~~LIQSMHIDATLYTESDVHPSCKVTAMKCF~~LLE~~LQVISLES~~GD~~ASIHDTVEDLIILANNSLS
 SNGNV~~TES~~GCKE~~CE~~ELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPIEKTI~~SK~~AKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDS
 GSFFLYSKLTVDKSRWEQGDV~~FS~~CSVMHEALHNHYTQKSLSLSPGK

Chain 2 – human_IL15Rα(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 993-995)
 ITCPPPM~~S~~VEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI~~SK~~AKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFYPS
 DIAVEWESNGQ~~PEN~~NYKTTTPVLDS~~GS~~FFLYSKLTVDKSRWQGNV~~FS~~CSVMHEALHNHYTQKSLSLSPGK

>XENP024052 human IL15_N4D/N65D-human IL15Rα(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)
 NWVDVI~~SD~~LKKI~~ED~~LIQSMHIDATLYTESDVHPSCKVTAMKCF~~LLE~~LQVISLES~~GD~~ASIHDTVEDLIILANNSLS
 SNGNV~~TES~~GCKE~~CE~~ELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPIEKTI~~SK~~AKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDS
 GSFFLYSKLTVDKSRWEQGDV~~FS~~CSVMHEALHNHYTQKSLSLSPGK

Chain 2 – human_IL15Rα(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NOS 999-1001)
 ITCPPPM~~S~~VEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI~~SK~~AKGQPREPQVYTLPPSREQMTKNQVKLTCLVKGFYPS
 DIAVEWESNGQ~~PEN~~NYKTTTPVLDS~~GS~~FFLYSKLTVDKSRWQGNV~~FS~~CSVMHEALHNHYTQKSLSLSPGK

>XENP024113 human IL15_N4D/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_N4D/N65D_(GGGGS)1_Fc(216)_IgG1_pl(-)
)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 1002-1004)
 NWVDVI~~SD~~LKKI~~ED~~LIQSMHIDATLYTESDVHPSCKVTAMKCF~~LLE~~LQVISLES~~GD~~ASIHDTVEDLIILANNSLS
 SNGNV~~TES~~GCKE~~CE~~ELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTI~~SK~~AKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 VLDS~~GS~~FFLYSKLTVDKSRWEQGDV~~FS~~CSVLHEALHSHYTQKSLSLSPGK

Chain 2 –human_IL15Rα(Sushi)_(GGGGS)1_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S
 (SEQ ID NOS 1005-1007)
 ITCPPPM~~S~~VEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/EPK
 SSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPRE
 EQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI~~SK~~AKGQPREPQVYTLPPSREQMTKNQVKLTCLV
 KGFYPSDIAVEWESNGQ~~PEN~~NYKTTTPVLDS~~GS~~FFLYSKLTVDKSRWQGNV~~FS~~CSVLHEALHSHYTQKSLSLSPGK

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)
 NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLS
 SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
 MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
 ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDS
 DSGSFFLYSKLTVDKSRWEQGDVFCSCSVLHEALHSHYTQKSLSLSPGK

Chain 2 – human_IL15Rα(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S (SEQ ID NOS 1011-1013)
 ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREQMTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPVLDS DSGSFFLYSKLTVDKSRWQGNVFCSCSVLHEALHSHYTQKSLSLSPGK

>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)
 NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCVTAMKCFLELQVISLES GDASIHDTVQDLIILANNSLS
 SNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS/GGGGS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPP
 KPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYK
 CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTP
 VLDS DSGSFFLYSKLTVDKSRWEQGDVFCSCSVLHEALHSHYTQKSLSLSPGK

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

Figure 104AR

**>XENP024341 human IL15_N1D/N65D-human IL15 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)**
DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVEDLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTL
MISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNATKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
ALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGQPENNYKTTTPVLDS
GSFFLYSKLTVDKSRWEQGDVFCSCSVLHEALHSHYTQKSLSLSPGK

**Chain 2 – human_IL15 α (Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S (SEQ ID
 NOS 1023-1025)**
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNATKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFCSCSVLHEALHSHYTQKSLSLSPGK

>XENP024342 human IL15(non-covalent; Q108E)-human IL15 α (Sushi) Fc(216) IgG1_C220S/PVA_/S267K

Chain 1 – human_IL15 α (Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K (SEQ ID NOS 1026-1028)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNATKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 –human_IL15(non-covalent; Q108E) (SEQ ID NO: 1029)
NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS

**>XENP024346 human IL15(non-covalent; Q108E)-
 human IL15 α (Sushi) Fc(216) IgG1_C220S/PVA_/S267K/M428L/N434S**

Chain 1 – human_IL15 α (Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/M428L/N434S (SEQ ID NOS 1030-1032)
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNATKPREEQYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFCSCSVLHEALHSHYTQKSLSLSPGK

Chain 2 – human_IL15(non-covalent; Q108E) (SEQ ID NO: 1033)
NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVEMFINTS

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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNLSL
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 – human_IL15Ra(Sushi)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 1035-1037)

ITCPPPMSEVHADIIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDFVSCVMHEALHNHYTQKSLSLSPGK

Chain 3 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 1038)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREOMTKNQVSLT
CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVDFSCVMHEALHNHYTQKSLSL
SPGK

>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)

ITCPPPMSEVHADIIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGDFVSCVMHEALHNHYTQKSLSLSPGK

Chain 2 – empty-Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 1042)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREOMTKNQVSLT
CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVDFSCVMHEALHNHYTQKSLSL
SPGK

Chain 3 – IL15_Q108E_(non-covalent) (SEQ ID NO: 1043)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNLSL
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: 1044)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVEDLIILANNLSL
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_C220S/PVA_/S267K/M428L/N434S (SEQ ID NOS 1045-1047)

ITCPPPMSEVHADIIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTHTCPPCPAPPVAGPSV
FLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPA
PIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVDFSCSVLHEALHSHYTQKSLSLSPGK

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)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS
SNGNVTESGCKECEEELEEKNIKEFLQSFVHIVEMFINTS

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

)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S/M428L/N434S (SEQ ID NOS 1049-1051)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DI AVEWESDGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEQGDVFS CVLHEALHSHYTQKSLSLSPGK

Chain 3 - empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S (SEQ ID NO: 1052)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPYPSDI AVEWESDGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CVLHEALHSHYTQKSL
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)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGSGGGG
SGGGSGGGSGGGSGGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCVTAMKCFLELQVISLE
SGDASIHDTVENLIILANNSLSNGNVTESGCKECEEELEEKNIKEFLQSFVHIVEMFINTS/EPKSSDKTHTCPP
CPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVV
SVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAV
EWESDGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEQGDVFS CVMHEALHNHYTQKSLSLSPGK

Chain 2 - empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 1057)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CLVKGFPYPSDI AVEWESDGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CVMHEALHNHYTQKSL
SLSPGK

Figure 104AU

>XENP024476 human IL15Ra(sushi) (GGGGGS)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)_(GGGGS)6-human_IL15(single-chain;N4D/N65D)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 1058-1061)

ITCPPPMSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
SGGGSGGGSGGGSGGGGS/NWVDVSDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLE
SGDASIHTVEDLIILANNSLSSNGNVTESGCKECEEELEEKNIKEFLQS FVHIVQMFINTS/EPKSSDKTHTCP
CPAPPVAGPSVFLFPKPKD TLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVS
VLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAV
EWESDGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 – empty_ Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 1062)
 EPKSSDKTHTCPPCAPPVAGPSVFLFPPPKD~~T~~LMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSV~~L~~TVLHQDWLNGKEYKCKVSNKALPAPIEKTI~~S~~KA~~K~~GQPREPQVYTLPPSREQMTKNQV~~K~~LT
 CLVKGFIYPSDIAVEWESNGQPENNYK~~T~~TPPV~~L~~DS~~D~~GSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQ~~K~~SL
 SLSPGK

>XENP024477 human_IL15Ra(sushi) (GGGGG)7-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)7-human_IL15(single-chain)_Fc(216)_IgG1_pl(-)
_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 1063-1066)

ITCPPPMSEVHADIIWVKSYSLYSRERYICNSGFKRKAGTSSSLTECVLNKATNVAHWTTPSLKCIR/GGGSGGGG
SGGGSGGGSGGGSGGGSGGGG/NWNVVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQ
VISLES GDASIHDTVENLII LANNSLSSNGNVTESGCKECEELEEKNIKEFLQS FVHIVQMFINTS/EPKSSDKT
HTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNST
YRVSVLTVLHQDW_LNGKEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYF
SDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 1067)
 EPKSSDKTHTCPPCPAPPVAGPSVFLPFPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVVKLT
 CLVKGFPYSPDIAVEWESNGQPENNYKTTTPVLDSGGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSL
 SLSPGK

>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)

ITCPPPMSEVHADILWVKSYSLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCI R/ GGGSGGGG
SGGGSGGGSGGGSGGGSGGGG/ NWNVVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLLLELQ
VISLES GDASIHDTVENLIILANNSLSSNGNVTESGCKECELEEKNIKEFLQS FVHIVEMFIN TS/ EPKSSDKT
HTCPCPCAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNST
YRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFY P
SDIAVEWESDGPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEQGVDFSCVMHEALHNHYTOKSLSLSPGK

Chain 2 – empty_ Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 1072)
 EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVHLQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLK
 TCLKVGGPSDIAVEWESNGQPENNYKTTTPVLDS DGSFFLYSKLTVDKSRWQQGNV FSCSVMHEALHNHYTQKSL
 SLSPGKFP

Figure 104AV

>XENP024479 human IL15Ra(sushi) (GGGGGS)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)

ITCPPPMSEVHADIIWVKSYSLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGSGGGG
SGGGSGGGSGGGSGGGSGGGGS/NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLELQ
VISLESGDASIHDTVEDLII LANNLS SNGNVTESGCKECELEEKNIKEFLQS FVHIVQMFINTS/EPKSSDKT
HTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNST
YRVVSVLTVLHQDW_{LG}KEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYF
SDIAVEWESDGGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWEEQGDVFSCSVMHEALHNHYTQKSLSLSPGK

Chain 2 - empty-Fc_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 1077)
 EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVHLQDWLNGKEYCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREQMTKNQVKLK
 CLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNNHYTKQSL
 SLSPGK

>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)

ITCPPPMSEVHADILWVKSYSLYSRERYICNSGFKRKAGTSSLTCEVLNKA TNVAHWTTPSLKCIR/DPALVHQRP
APPGGGGSGGGGSGGGGSGGG/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLE
SGDASIHDTVENLIILANNSLSSNGNVTESGCKECEEELEEKNIKEFLQS FVHIVQMFINTS/EPKSSDKTHTCPP
CPAPPVAGPSVFLFPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVS
VLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAV
EWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEOGDVFCSCVMHEALHNHYTQKSLSLSPGK

Chain 2 – empty_ Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q (SEQ ID NO: 1082)
 EPKSSDKTHTCPPCAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVTLHQDWLNGKEYCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSREQMTKNQVKLK
 TSLVGFYFSPDIAVEWESNGQPENNYKTTTPVLDSGGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNNHYTKSL
 CLSPGK

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)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/DPALVHQRPA
 APPGGGGSGGGGSGGGGSGGGG/NWVNVI SDLKKI EDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVLSLE
 SGDASIHDITVENLIILANNSLSSNGNVTESGCKECEELEEKNIKEFLQS FVHIVEMFINTS/EPKSSDKTHTCPP
 CPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTYRVVS
 VLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPSDIAV
 EWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

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

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CLVKGFIYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLS
 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)

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
 DIAVEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

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

ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
 TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
 RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
 DIAVEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVFSQVMHEALHNHYTQKSLSLSPGK

Chain 3 – empty_Fc(216)_IgG1_PVA_/S267K/S364K/E357Q (SEQ ID NO: 1094)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
 REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
 CLVKGFIYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLS
 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)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCKVTAMKCFLELQVISLES GDASIHDTVQDLIILANNSLS
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - human_IL15Ra(Sushi)_Fc(216)_IgG1_pl(-)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S (SEQ ID NOS 1096-1098)

ITCPCPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/EPKSSDKTH
TCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEEYNSTY
RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDVSGFYPS
DIAVEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGVDFSCVMHEALHNHYTQKSLSLSPGK

Chain 3 - empty_Fc(216)_IgG1_PVA_/S267K/S364K/E357Q (SEQ ID NO: 1099)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREOMTKNQVSLT
CLVKGIFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVDFSCVMHEALHNHYTQKSLS
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)**

ITCPCPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGSGGGSGGGSGGGSGGGG
S/NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLS SNGNVTESGCKE
EELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWY
VDGVEVHNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCDV
SGFYPSDIAVEWESDGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGVDFSCSVLHEALHSHYTQKSLSLSPGK

Chain 2 – empty_Fc(216)_IgG1_C220S/PVA_/S267K/S364K/E357Q/M428L/N434S (SEQ ID NOS 1104-1108)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVL
TVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREOMTKNQVSLTCLVKGIFYPSDIAVEWESNGQPENNYKTTTP
VLDSDGSFFLYSKLTVDKSRWQQGNVDFSCSVLHEALHSHYTQKSLSLSPGK

human_IL15Ra(sushi)(single-chain)-human_IL15_Fc(216)_IgG1_C220S/PVA_/S267K; corresponding to Figure 14

ITCPCPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR/GGGGS/NWV
NVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLS SNG
NVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS/EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI S
RTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALP
APIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGIFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSF
FLYSKLTVDKSRWQQGNVDFSCSVMHEALHNHYTQKSLSLSPGK

Figure 104AY

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; corresponding to Figure 16

Chain 1 - empty-Fc(216)_IgG1_pl(-

)_Isosteric_A_C220S/PVA_/S267K/L368D/K370S_(GGGGS)2_IL15Ra(Sushi)_IL15(single-chain) (SEQ ID NOS 1109-1112)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFNWYVDGVEVHNAKTKP
REEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT
CDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEEQGDVFSCSV MHEALHNHYTQKSL
SLSPGK/ GGGSGGGGS/ITCPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWT
TPSLKCIR/GGGGS/NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES GDASIH
DTVENLIILANNSLSSNGNVTESGCKECEEELEEKNIKEFLQSFVHIVQMFINTS

Chain 2 - empty-Fc(216)_IgG1_ISO(+RR)_C220S/PVA_/S267K/S364K/E357Q (8927) (SEQ ID NO: 1113)

ERKSSDKTHTCPRCPPAPPVAGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVKHEDPEVKFKWYVDGVEVHNAKTKP
REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI EKTISKAKGQPREPQVYTLPPSREQMTKNQVKLT
CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSV MHEALHNHYTQKSL
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

MRISKPHLRISISIQCYLCLLLNSHFLTEAGIHVFILGCFSAAGLPKTEANWVNVISDLKKIEDLIQSMHIDATLYT
ESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNVTESGCKECEELEEKNIKEFLQS
FVHIVQMFINTS

Human IL-15 mature form sequence (SEQ ID NO: 1115)

>sp|P40933|49-162

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSL
SNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Human IL-15R α sequence (SEQ ID NO: 1116)

>sp|Q13261

MAPRRARGCRTLGLPALLLLLLLRPPATRGITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTEC
VLNKATNVAHWTTPSLKCIRD PALVHQRPAPPSTVTTAGVTPQPESLSPSGKEPAASSPSSNNTAATTAAIVPGS
QLMPSPKSPSTGTTEISSHESHGTPSQTTAKNWELTASASHQPPGVYPQGHSDTTVAISTSTVLLCGLSAVSLLA
CYLKSQRTPPLASVEMEAMEALPVTWGTSSRDELDENCSHHL

Human IL-15R α , extracellular domain (SEQ ID NO: 1117)

>sp|Q13261|31-205

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD PALVHQRP
APPSTVTTAGVTPQPESLSPSGKEPAASSPSSNNTAATTAAIVPGSQLMPSPKSPSTGTTEISSHESHGTPSQTTA
KNWELTASASHQPPGVYPQGHSDTT

Human IL-15R α , sushi domain (SEQ ID NO: 1118)

>sp|Q13261|31-95

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

Human IL-15R β sequence (SEQ ID NO: 1119)

>sp|P14784

MAAPALSWRLPLLI LLLPLATSWASAAVNGTSQFTCFYNSRANISCVWSQD GALQD TSCQVHAWPDRRRWNQTCE
LLPV SQASWACNLILGAPDSQKLTTVDIVTLRVLCREGVRWRVMAIQDFKPFENLRMLAPI SLQVVHVETHRCNI
SWEISQASHYFERHLEFEARTLSPGHTWEEAPLLTLKQKQEWICLETLPDTQYEFQVRVKPLQGEFTTWSPWSQ
PLAFRTKPAALGKDTIPWLGHLVGLSGAFGFII LVYLLINCRNTGPWLKKVLKCNTPDP SKFFS QLSSEHGGDV
QKWLSSPFPSSSFSPGGLAPEISPLEVLERDKVTQLLLQQDKVPE?ASLSSNHS LTSCFTNQGYFFHLPDALEI
EACQVYFTYDPYSEEDPDEGVAGAPTGSSPQLQPLSGEDDAYCTFPSRDDLLLFSPSLLGGPSPSTAPGGSGA
GEERMPPSLQERVPRDWDPPQLGPPTPGVPDLVDFQPPPELV LREAGEEVPDAGPREGVSPFWSRPPGQGEFRAL
NARLPLNTDAYLSLQELQGQDPTHLV

Human IL-15R β , extracellular domain (SEQ ID NO: 1120)

>sp|P14784|27-240

AVNGTSQFTCFYNSRANISCVWSQD GALQD TSCQVHAWPDRRRWNQTCELLPV SQASWACNLILGAPDSQKLTTV
DIVTLRVLCREGVRWRVMAIQDFKPFENLRMLAPI SLQVVHVETHRCNISWEISQASHYFERHLEFEARTLSPGH
TWEEAPLLTLKQKQEWICLETLPDTQYEFQVRVKPLQGEFTTWSPWSQPLAFRTKPAALGKDT

Figure 104BA**Human common gamma chain sequence (SEQ ID NO: 1121)**

>sp|P31785

MLKPSPFTSLLFLQLPLLGVGLNNTTILTPNGNEDTTADFFLTMTPTDSLVSSTLPLPEVQCFVFNVEYMNCTWN
SSSEPQPTNLTLYHYKNSDNDKVQKCSHYLFSEEITSGCQLQKKEIHLYQTFVVQLQDPREPRRQATQMLKLQN
LVI PWAPENLT LHKLS ESQLELNWNNRFLNHCLEHLVQYRTDWDHSWTEQSVDIRHKFSLPSVDGQKRYTFRVRS
RFNPLCGSAQHWSEWSHPHWSNNTSKENPFLFALEAVVISVGSMLII SLLCVYFWLERTMPRIPTLKNLEDLV
TEYHGNSAWSGVSKGLAESLPDYSERLCLVSEIPPKGGALGEGPGASPCNQHSFYWAPPCTYTLKPET

Human common gamma chain, extracellular domain (SEQ ID NO: 1122)

>sp|P31785|23-262

LNTTILTPNGNEDTTADFFLTMTPTDSLVSSTLPLPEVQCFVFNVEYMNCTWNSSEPQPTNLTLYHYKNSDND
KVQKCSHYLFSEEITSGCQLQKKEIHLYQTFVVQLQDPREPRRQATQMLKLQNLVI PWAPENLT LHKLS ESQLEL
NWNRRFLNHCLEHLVQYRTDWDHSWTEQSVDIRHKFSLPSVDGQKRYTFRVRSRFNPLCGSAQHWSEWSHPHWS
NNTSKENPFLFALEA

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
DPALVHQRPAAPPGGGGSGGGGSGGGGSGGG	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
PSREQMTKNQVVKLTCLVKGIFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1124)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGIFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 2**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1125)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVVKLTCLVKGIFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1126)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGIFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 3**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1127)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVVKLTCLVKGIFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1128)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCEVSGIFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSVMEALHNHYTQKSLSLSPGK

Figure 104BD

IL-15/R α -Fc Backbone 4**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1129)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLD SKGSFFLYSKLTVDKSRWQQG
NVFSCSV MHEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1130)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTENEVSLTCLVKGFYPSDIAVEWESD GQPENNYKTTTPVLDSDGSFFLYSKLEV DKS RWEQG
DVFSCSV MHEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 5**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1131)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSRDQLTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSV MHEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1132)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSRDELTKNQVSLTCDVSGFYPSDIAVEWESD GQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSV MHEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 6**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1133)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREQMTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSV MHEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1134)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGFYPSDIAVEWESD GQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQG
DVFSCSV MHEALHNHYTQKSLSLSPGK

Figure 104BE

IL-15/R α -Fc Backbone 7**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1135)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYSSYTRVVSFLTSLHQLDNLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREQMTKNQVKLTCLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1136)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYSSYTRVVSFLTSLHQLDNLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP
PSREEMTKNQVSLTCDVSGFPYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGG
DVFSCSVMEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 8**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1137)**

ESKYGPPCPPPCPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQEDPEVQFNWYVDGVEVHN
AKTKPREEQFNSTYRVVSFLTSLHQLDNLNGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTLPPS
QEOMTKNQVKLTCLVKGFPYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKSRWQEGNV
FSCSVMEALHNHYTQKSLSLSLGLK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1138)

ESKYGPPCPPPCPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQEDPEVQFNWYVDGVEVHN
AKTKPREEEFNSTYRVVSFLTSLHQLDNLNGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTLPPS
QEEMTKNQVSLTCDVSGFPYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSRLTVDKSRWEEGDV
FSCSVMEALHNHYTQKSLSLSLGLK

IL-15/R α -Fc Backbone 9**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1139)**

ERKCCVECPPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVQFNWYVDGVEVHNA
KTKPREEQFNSTFRVVSFLTSLHQLDNLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSR
EQMTKNQVKLTCLVKGFPYPSDIAVEWESNGQPENNYKTTTPMLDSDGSFFLYSKLTVDKSRWQQGNVF
SCSVMEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1140)

ERKCCVECPPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVQFNWYVDGVEVHNA
KTKPREEEFNSTFRVVSFLTSLHQLDNLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSR
EEMTKNQVSLTCDVSGFPYPSDIAVEWESDGPENNYKTTTPMLDSDGSFFLYSKLTVDKSRWEQGDVF
SCSVMEALHNHYTQKSLSLSPGK

Figure 104BF

IL-15/R α -Fc Backbone 10**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1141)**

ERKCCVECPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVQFNWYVDGVEVHNA
KTKPREEQFNSTFRVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSR
EQMTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPMLDSDGSFFLYSKLTVDKSRWQQGNVF
SCSVMHEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1142)

ERKCCVECPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVQFNWYVDGVEVHNA
KTKPREEEFNSTFRVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSR
EEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPMLDSDGSFFLYSKLTVDKSRWEQGDVF
SCSVMHEALHNHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 11**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1143)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLF
PSREQMTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVLHEALHSHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1144)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLF
PSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWEQGDVF
SCSVLHEALHSHYTQKSLSLSPGK

IL-15/R α -Fc Backbone 12**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1145)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLF
PSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMHEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1146)

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEQYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLF
PSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQG
NVFSCSVMHEALHNHYTQKSLSLSPGK

Figure 104BG

IL-15/R α -Fc Backbone 13**>IL-15/R α -Fc monomer 1 (SEQ ID NO: 1147)**

EPKSSDKTHTCPPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFNWYVDGVEV
HNAKTKPREEEYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLF
PSREEMTKNQVSLTCDVSGFYPSDIAVEWESDGPENNYKTTTPVLDSGGSFFLYSKLTVDKSRWEQG
DVFSCSVMHEALHNHYTQKSLSLSPGK

>IL-15/R α -Fc monomer 2 (SEQ ID NO: 1148)

ERKSSDKTHTCPRCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVKHEDPEVKFKWYVDGVEV
HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLF
PSREQMTKNQVKLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSGGSFFLYSKLTVDKSRWQQG
NVFSCSVMHEALHNHYTQKSLSLSPGK

Figure 104BH**Example 2A sequences****IL-15R α (sushi-D96) of Figure 27 (SEQ ID NO: 1149)**ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDP**IL-15R α (sushi-D96/P97) of Figure 27 (SEQ ID NO: 1150)**ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDP**IL-15R α (sushi-D96/P97/A98) of Figure 27 (SEQ ID NO: 1151)**ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDPA**IL-15(E87C) of Figure 28 (SEQ ID NO: 1152)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES α SGDASIHDTVENLII
LANNSLSSNGNVTESGCKCCEELEEKNIKEFLQSFVHIVQMFINTS**IL-15(V49C) of Figure 28 (SEQ ID NO: 1153)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES α SGDASIHDTVENLII
LANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS**IL-15(L52C) of Figure 28 (SEQ ID NO: 1154)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES α SGDASIHDTVENLII
LANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS**IL-15(E89C) of Figure 28 (SEQ ID NO: 1155)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES α SGDASIHDTVENLII
LANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS**IL-15(Q48C) of Figure 28 (SEQ ID NO: 1156)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES α SGDASIHDTVENLII
LANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS**IL-15(E53C) of Figure 28 (SEQ ID NO: 1157)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES α SGDASIHDTVENLII
LANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS**of Figure 28****IL-15(C42S) (SEQ ID NO: 1158)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES α SGDASIHDTVENLII
LANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS**IL-15(L45C) of Figure 28 (SEQ ID NO: 1159)**NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLLELQVISLES α SGDASIHDTVENLII
LANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

Figure 104B1**IL-15R α (sushi-D96/C97) of Figure 29 (SEQ ID NO: 1160)**

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDC

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)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFCRKAGTSSLTECVLNKATNVAHWTTPSLKCIR

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)

ITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSCTECVLNKATNVAHWTTPSLKCIR

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)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

N4D (SEQ ID NO: 1169)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

D8N (SEQ ID NO: 1170)

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

D30N (SEQ ID NO: 1171)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

D61N (SEQ ID NO: 1172)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVENLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

E64Q (SEQ ID NO: 1173)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

N65D (SEQ ID NO: 1174)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVEDLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Q108E (SEQ ID NO: 1175)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVENLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

N1D/D61N (SEQ ID NO: 1176)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVENLIILANNSLSSNGNV
TESGCKECELEEKNIKEFLQSFVHIVQMFINTS

Figure 104BK**N1D/E64Q (SEQ ID NO: 1177)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

N4D/D61N (SEQ ID NO: 1178)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVENLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

N4D/E64Q (SEQ ID NO: 1179)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

D8N/D61N (SEQ ID NO: 1180)

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVENLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

D8N/E64Q (SEQ ID NO: 1181)

NWVNVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

D61N/E64Q (SEQ ID NO: 1182)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQNLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

E64Q/Q108E (SEQ ID NO: 1183)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHDTVQNLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

N1D/N4D/D8N (SEQ ID NO: 1184)

DWVDVISNLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVENLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

D61N/E64Q/N65D (SEQ ID NO: 1185)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQDLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

N1D/D61N/E64Q/Q108E (SEQ ID NO: 1186)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQNLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

N4D/D61N/E64Q/Q108E (SEQ ID NO: 1187)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLES GDASIHNTVQNLIILANNSSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

Figure 104BL**N1D/N65D (SEQ ID NO: 1188)**

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESQDASIHDTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

N1D/Q108E (SEQ ID NO: 1189)

DWVNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESQDASIHDTVENLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVEMFINTS

N4D/N65D (SEQ ID NO: 1190)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESQDASIHDTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

D30N/N65D (SEQ ID NO: 1191)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPCKVTAMKCFLELQVISLESQDASIHDTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

D30N/Q108E (SEQ ID NO: 1192)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPCKVTAMKCFLELQVISLESQDASIHDTVENLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVEMFINTS

N65D/Q108E (SEQ ID NO: 1193)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESQDASIHDTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVEMFINTS

E64Q/N65D (SEQ ID NO: 1194)

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESQDASIHDTVQDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

N1D/N4D/N65D (SEQ ID NO: 1195)

DWVDVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESQDASIHDTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

D30N/E64Q/N65D (SEQ ID NO: 1196)

NWVNVISDLKKIEDLIQSMHIDATLYTESNVHPCKVTAMKCFLELQVISLESQDASIHDTVQDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

N4D/D61N/N65D (SEQ ID NO: 1197)

NWVDVISDLKKIEDLIQSMHIDATLYTESDVHPCKVTAMKCFLELQVISLESQDASIHDTVEDLIILANNSLSSNGNVTESGCKECEE
LEEKNIKEFLQSFVHIVQMFINTS

Figure 105

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<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 T_m (°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.