Kabat Residue	'	'	'	'	5	'	'	'	'	10	'	'	'	'	15	'	'	'	'	20
DOM7h-11	D	I	Q	M	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T
DOM7h-11-12	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM7h-11-15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM7h-11-18	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM7h-11-19	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM7h-11-3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue	'	'	'	'	25	'	'	'	'	30	'	'	'	'	35	'	'	'	'	40
DOM7h-11	I	T	C	**R**	**A**	**S**	**R**	**P**	**I**	**G**	**T**	**T**	**L**	**S**	W	Y	Q	Q	K	P
DOM7h-11-12	.	.	.	-	-	-	-	-	-	-	-	**M**	-	-	.	.	.	.	.	.
DOM7h-11-15	.	.	.	-	-	-	-	-	-	-	-	**M**	-	-	.	.	.	.	.	.
DOM7h-11-18	.	.	.	-	-	-	-	-	-	-	-	**M**	-	-	.	.	.	.	.	.
DOM7h-11-19	.	.	.	-	-	-	-	-	-	-	-	**M**	-	-	.	.	.	.	.	.
DOM7h-11-3	.	.	.	-	-	-	-	-	-	-	-	-	-	-	.	.	.	.	.	.

Kabat Residue	'	'	'	'	45	'	'	'	'	50	'	'	'	'	55	'	'	'	'	60
DOM7h-11	G	K	A	P	K	L	L	I	W	**F**	**G**	**S**	**R**	**L**	**Q**	**S**	G	V	P	S
DOM7h-11-12	.	.	.	.	.	.	.	.	L	-	-	-	-	-	-	-	.	.	.	.
DOM7h-11-15	.	.	.	.	.	.	.	.	L	**A**	**F**	-	-	-	-	-	.	.	.	.
DOM7h-11-18	.	.	.	.	.	.	.	.	.	-	-	-	-	-	-	-	.	.	.	.
DOM7h-11-19	.	.	.	.	.	.	.	.	L	-	-	-	-	-	-	-	.	.	.	.
DOM7h-11-3	.	.	.	.	.	.	.	.	L	**W**	**N**	-	-	-	-	-	.	.	.	.

Kabat Residue	'	'	'	'	65	'	'	'	'	70	'	'	'	'	75	'	'	'	'	80
DOM7h-11	R	F	S	G	S	G	S	G	T	D	F	T	L	T	I	S	S	L	Q	P
DOM7h-11-12	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Figure 1A

DOM7h-11-15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM7h-11-18	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM7h-11-19	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM7h-11-3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

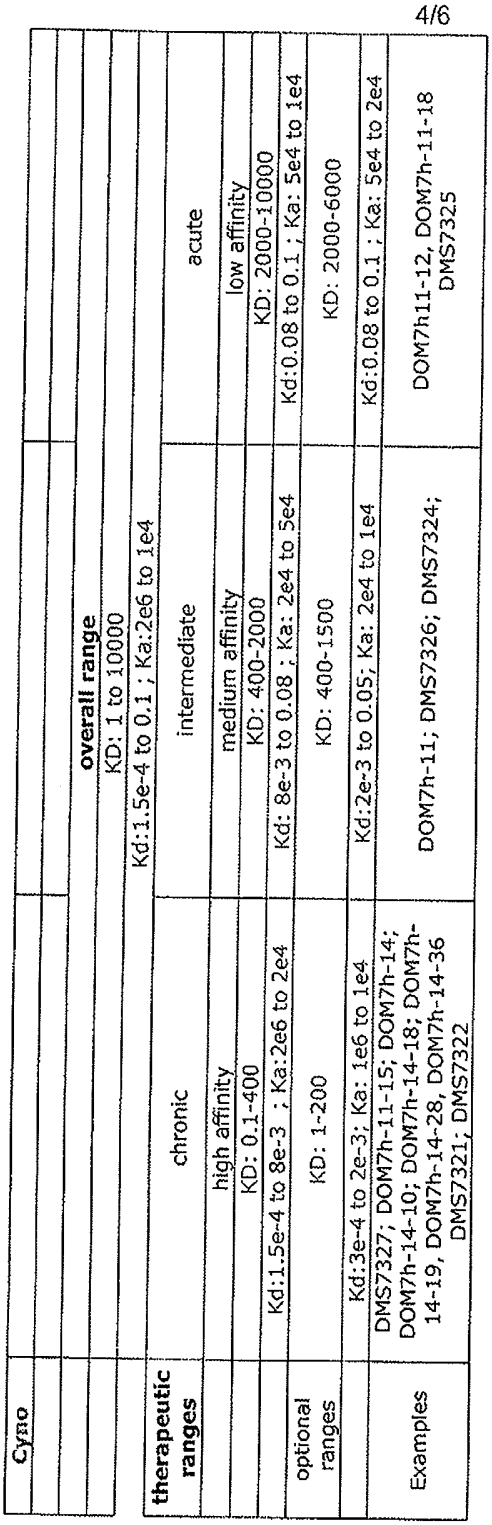
Kabat Residue	'	'	'	'	85	'	'	'	'	90	'	'	'	'	95	'	'	'	'	100
DOM7h-11	E	D	F	A	T	Y	Y	C	A	Q	A	G	T	H	P	T	T	F	G	Q
DOM7h-11-12	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM7h-11-15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM7h-11-18	.	.	.	.	.	.	H	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM7h-11-19	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.
DOM7h-11-3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue	'	'	'	'	105	'	'	'
DOM7h-11	G	T	K	V	E	I	K	R
DOM7h-11-12	.	.	.	.	.	.	.	.
DOM7h-11-15	.	.	.	.	.	.	.	.
DOM7h-11-18	.	.	.	.	.	.	.	.
DOM7h-11-19	.	.	.	.	.	.	.	.
DOM7h-11-3	.	.	.	.	.	.	.	.

Figure 1B

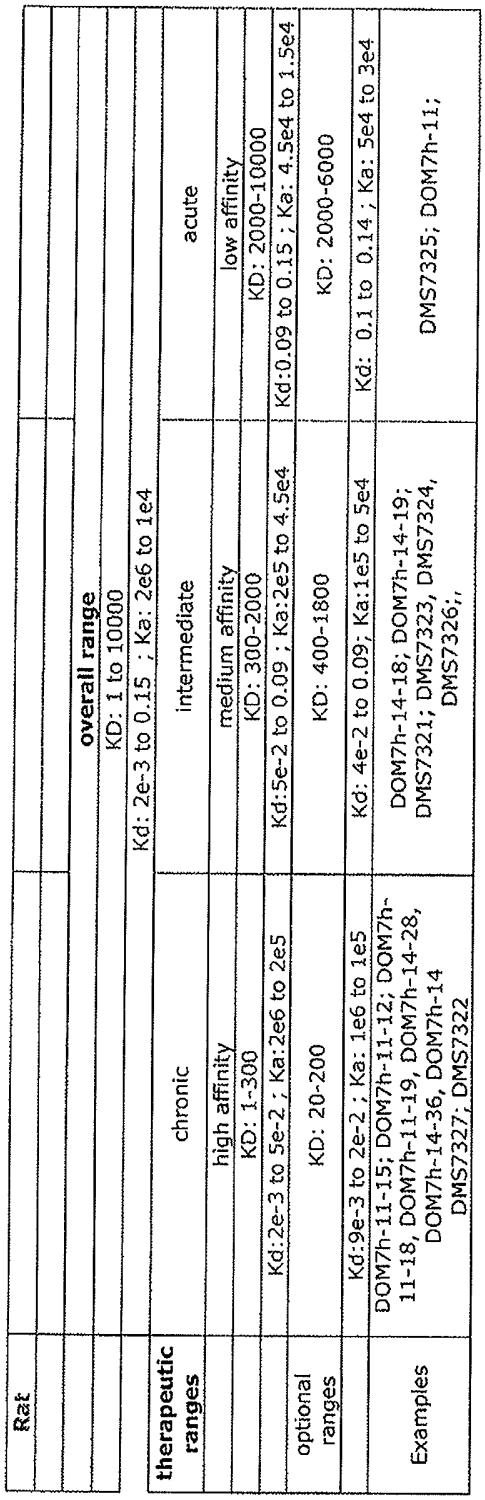
human	kinetics based on DOM7h-14 and DOM7h-11 lineage (ranges supported by data)		
	overall range		
	KD: 1 to 10000		
	Kd:1.5e-4 to 0.1 ; Ka:2e6 to 1e4		
therapeutic ranges	chronic	intermediate	acute
	high affinity	medium affinity	low affinity
	KD: 0.1-400	KD: 400-2000	KD: 2000-10000
	Kd:1.5e-4 to 8e-3 ; Ka:1e6 to 5e4	Kd: 8e-3 to 0.08 ; Ka: 2e4 to 5e4	Kd:0.08 to 0.1 ; Ka: 5e4 to 1e4
optional ranges	KD: 1-200	KD: 400-1500	KD: 2000-6000
	Kd:3e-4 to 2e-3; Ka: 1e6 to 5e4	Kd:8e-3 to 0.08; Ka: 2e4 to 6e4	Kd:0.08 to 0.1 ; Ka: 5e4 to 2e4
Examples	DOM7h-11-15, DOM7h-14, DOM7h-14-10, DOM7h-14-18, DOM7h-14-19, DOM7h-11-18, DOM7h-11-19 DMS7321, DMS7322; DMS7324, DMS7327	DMS7325, DMS7326; DMS7323	DOM7h-11

Figure 2A



Cyno			
		overall range	
		KD: 1 to 10000	
		Kd:1.5e-4 to 0.1 ; Ka:2e6 to 1e4	
therapeutic ranges	chronic	intermediate	acute
	high affinity	medium affinity	low affinity
	KD: 0.1-400	KD: 400-2000	KD: 2000-10000
	Kd:1.5e-4 to 8e-3 ; Ka:2e6 to 2e4	Kd: 8e-3 to 0.08 ; Ka: 2e4 to 5e4	Kd:0.08 to 0.1 ; Ka: 5e4 to 1e4
optional ranges	KD: 1-200	KD: 400-1500	KD: 2000-6000
	Kd:3e-4 to 2e-3; Ka: 1e6 to 1e4	Kd:2e-3 to 0.05; Ka: 2e4 to 1e4	Kd:0.08 to 0.1 ; Ka: 5e4 to 2e4
Examples	DMS7327; DOM7h-11-15; DOM7h-14; DOM7h-14-10; DOM7h-14-18; DOM7h-14-19, DOM7h-14-28, DOM7h-14-36 DMS7321; DMS7322	DOM7h-11; DMS7326; DMS7324;	DOM7h11-12, DOM7h-11-18 DMS7325

Figure 2B



Rat				
		overall range		
		KD: 1 to 10000		
		Kd: 2e-3 to 0.15 ; Ka: 2e6 to 1e4		
therapeutic ranges		chronic	intermediate	acute
		high affinity	medium affinity	low affinity
		KD: 1-300	KD: 300-2000	KD: 2000-10000
		Kd:2e-3 to 5e-2 ; Ka:2e6 to 2e5	Kd:5e-2 to 0.09 ; Ka:2e5 to 4.5e4	Kd:0.09 to 0.15 ; Ka: 4.5e4 to 1.5e4
optional ranges		KD: 20-200	KD: 400-1800	KD: 2000-6000
		Kd:9e-3 to 2e-2 ; Ka: 1e6 to 1e5	Kd: 4e-2 to 0.09; Ka:1e5 to 5e4	Kd: 0.1 to 0.14 ; Ka: 5e4 to 3e4
Examples		DOM7h-11-15; DOM7h-11-12; DOM7h-11-18, DOM7h-11-19, DOM7h-14-28, DOM7h-14-36, DOM7h-14 DMS7327; DMS7322	DOM7h-14-18; DOM7h-14-19; DMS7321; DMS7323, DMS7324, DMS7326;,	DMS7325; DOM7h-11;

Figure 2C

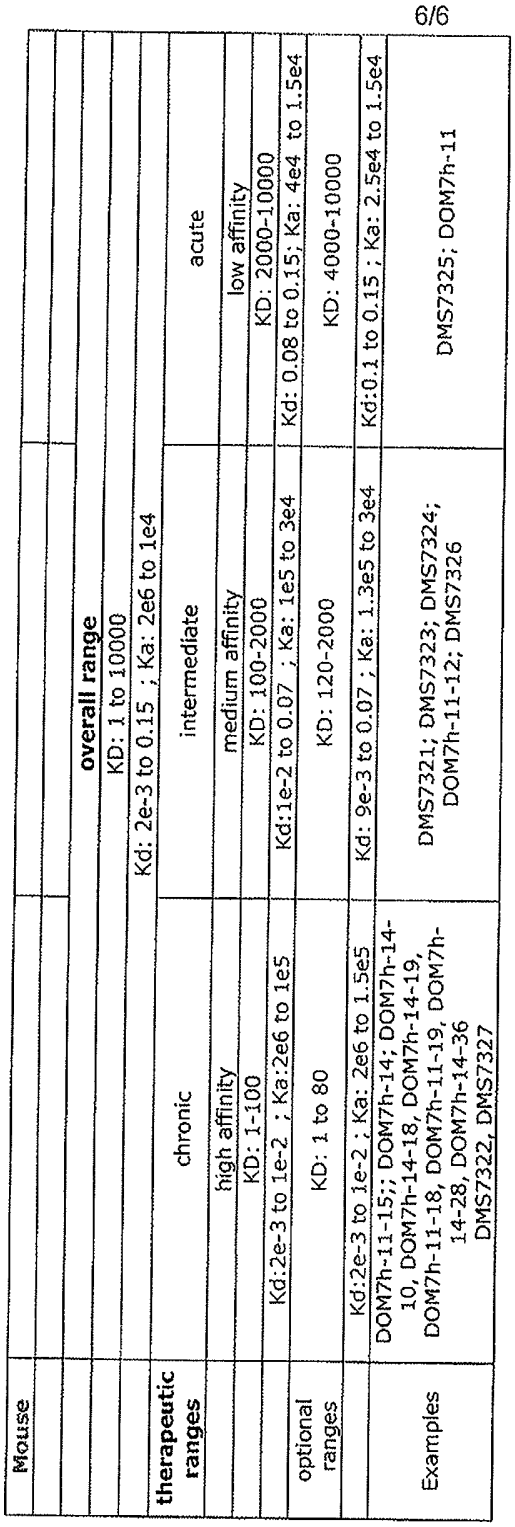

Mouse
overall range
KD: 1 to 10000
Kd: 2e-3 to 0.15 ; Ka: 2e6 to 1e4
therapeutic ranges
chronic
intermediate
acute
high affinity
medium affinity
low affinity
KD: 1-100
KD: 100-2000
KD: 2000-10000
Kd:2e-3 to 1e-2 ; Ka:2e6 to 1e5
Kd:1e-2 to 0.07 ; Ka: 1e5 to 3e4
Kd: 0.08 to 0.15; Ka: 4e4 to 1.5e4
optional ranges
KD: 1 to 80
KD: 120-2000
KD: 4000-10000
Kd:2e-3 to 1e-2 ; Ka: 2e6 to 1.5e5
Kd: 9e-3 to 0.07 ; Ka: 1.3e5 to 3e4
Kd:0.1 to 0.15 ; Ka: 2.5e4 to 1.5e4
Examples
DOM7h-11-15;; DOM7h-14; DOM7h-14-10, DOM7h-14-18, DOM7h-14-19, DOM7h-11-18, DOM7h-11-19, DOM7h-14-28, DOM7h-14-36 DMS7322, DMS7327
DMS7321; DMS7323; DMS7324; DOM7h-11-12; DMS7326
DMS7325; DOM7h-11

Figure 2D