

Supporting Data.

SD Table 1A-C

Pyro

Hydrogen Bonds up to 3.5 Å (14 total)

Peptide residue	Fab		distance
	CDR	Protein residue	
pGlu3 N	L3	Ser97 O	3.19
Phe4 N	L3	Ser97 O	3.46
Phe4 O	L1	His31 NE2	2.91
Arg5 NH1	H2	Asp56 OD1	2.65
Arg5 NH1	H2	Asp56 OD2	2.99
Arg5 NH2	H3	His102 NE2	3.41
Arg5 NH2	H2	Asp56 OD2	2.81
His6 ND1	H3	Asp108 OD2	2.7
His6 ND1	H3	Asp108 OD1	3.03
His6 NE2	L3	Gly96 O	2.65
His6 O	L1	Asn33 ND2	3.39
Asp7 N	H3	His102 O	2.9
Asp7 OD1	H3	His102 ND1	3.18
Asp7 OD2	H3	His102 ND1	3.46

Ror2(518-525)

Hydrogen Bonds up to 3.5 Å (13 total)

Peptide residue	Fab		distance
	CDR	Protein residue	
Glu3 OE2	L3	His98 ND1	2.94
Phe4 N	L3	Ser97 O	3.31
Phe4 O	L1	His31 NE2	3.26
Arg5 NE	H3	His102 NE2	3.21
Arg5 NH1	H2	Asp56 OD2	3.29
Arg5 NH1	H2	Asp56 OD1	2.55
Arg5 NH2	H3	His102 NE2	3.39
Arg5 NH2	H2	Asp56 OD2	2.94
His6 ND1	H3	Asp108 OD1	3.31
His6 ND1	H3	Asp108 OD2	2.81
His6 NE2	L3	Gly96 O	2.63
Glu7 N	H3	His102 O	2.73
Glu7 OE2	H3	His102 ND1	3.41

A β (1-8) WT ⁶

Hydrogen Bonds up to 3.5 Å (18 total)

Peptide residue	Fab		distance
	CDR	Protein residue	
Ala2 O	L3	Val99 N	2.89
Glu3 OE1	L1	His31 NE2	3.27
Glu3 OE1	L1	Ser32 OG	2.68
Glu3 OE2	L1	Ser32 N	2.72

Glu3 OE2	L1	Ser32 OG	3.49
Phe4 N	L3	Ser97 O	2.85
Phe4 O	L1	His31 NE2	3.18
Arg5 NE	H3	His102 NE2	3.32
Arg5 NH1	H2	Asp56 OD1	2.77
Arg5 NH1	H2	Asp56 OD2	3.28
Arg5 NH2	H3	His102 NE2	3.45
Arg5 NH2	H2	Asp56 OD2	2.86
His6 ND1	H3	Asp108 OD1	3.17
His6 ND1	H3	Asp108 OD2	2.55
His6 NE2	L3	Gly96 O	2.73
Asp7 N	H3	His102 O	2.8
Asp7 OD1	H3	His102 ND1	2.77
Asp7 O	L1	Asn33 ND2	2.79