



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 1, 2014 – 04:23 AM GMT

PDB ID : 2DVQ
Title : Crystal structure analysis of the N-terminal bromodomain of human BRD2 complexed with acetylated histone H4 peptide
Authors : Nakamura, Y.; Umehara, T.; Shirouzu, M.; Padmanabhan, B.; Yokoyama, S.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2006-08-01
Resolution : 2.04 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

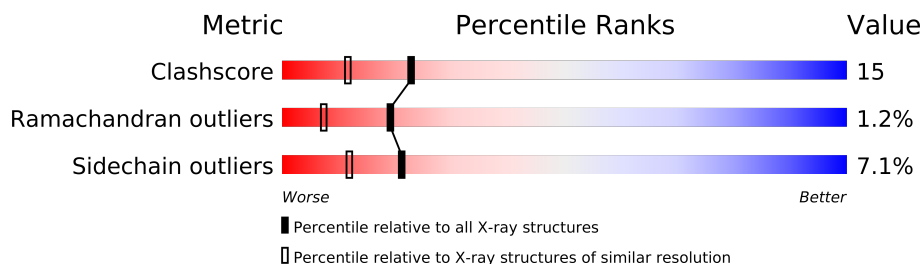
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : NOT EXECUTED
EDS : NOT EXECUTED
Percentile statistics : 21963
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance

The reported resolution of this entry is 2.04 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	79885	1577 (2.06-2.02)
Ramachandran outliers	78287	1565 (2.06-2.02)
Sidechain outliers	78261	1565 (2.06-2.02)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	122	
1	B	122	
1	C	122	
2	P	15	
2	Q	15	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3161 atoms, of which 0 are hydrogen and 0 are deuterium.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Bromodomain-containingprotein 2.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	114	Total	C	N	O	S	Se	0	0	0
			953	615	161	168	2	7			
1	B	112	Total	C	N	O	S	Se	0	0	0
			935	605	158	163	2	7			
1	C	107	Total	C	N	O	S	Se	0	0	0
			895	582	150	154	2	7			

There are 21 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	87	MSE	MET	MODIFIED RESIDUE	UNP P25440
A	121	MSE	MET	MODIFIED RESIDUE	UNP P25440
A	123	MSE	MET	MODIFIED RESIDUE	UNP P25440
A	142	MSE	MET	MODIFIED RESIDUE	UNP P25440
A	148	MSE	MET	MODIFIED RESIDUE	UNP P25440
A	165	MSE	MET	MODIFIED RESIDUE	UNP P25440
A	180	MSE	MET	MODIFIED RESIDUE	UNP P25440
B	87	MSE	MET	MODIFIED RESIDUE	UNP P25440
B	121	MSE	MET	MODIFIED RESIDUE	UNP P25440
B	123	MSE	MET	MODIFIED RESIDUE	UNP P25440
B	142	MSE	MET	MODIFIED RESIDUE	UNP P25440
B	148	MSE	MET	MODIFIED RESIDUE	UNP P25440
B	165	MSE	MET	MODIFIED RESIDUE	UNP P25440
B	180	MSE	MET	MODIFIED RESIDUE	UNP P25440
C	87	MSE	MET	MODIFIED RESIDUE	UNP P25440
C	121	MSE	MET	MODIFIED RESIDUE	UNP P25440
C	123	MSE	MET	MODIFIED RESIDUE	UNP P25440
C	142	MSE	MET	MODIFIED RESIDUE	UNP P25440
C	148	MSE	MET	MODIFIED RESIDUE	UNP P25440
C	165	MSE	MET	MODIFIED RESIDUE	UNP P25440
C	180	MSE	MET	MODIFIED RESIDUE	UNP P25440

- Molecule 2 is a protein called histone H4.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	P	8	Total	C	N	O	0	0	0
			46	28	9	9			
2	Q	15	Total	C	N	O	0	0	0
			82	48	17	17			

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	68	Total	O	0	0
			68	68		
3	B	82	Total	O	0	0
			82	82		
3	C	77	Total	O	0	0
			77	77		
3	P	7	Total	O	0	0
			7	7		
3	Q	16	Total	O	0	0
			16	16		

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

Note EDS was not executed.

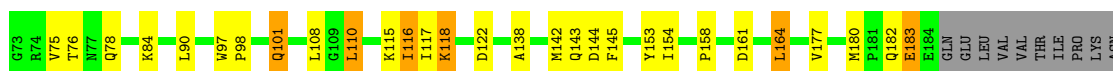
- Molecule 1: Bromodomain-containingprotein 2

Chain A: 



- Molecule 1: Bromodomain-containingprotein 2

Chain B: 



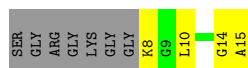
- Molecule 1: Bromodomain-containingprotein 2

Chain C: 



- Molecule 2: histone H4

Chain P: 



- Molecule 2: histone H4

Chain Q: 



4 Data and refinement statistics

Xtriage (Phenix) and EDS were not executed - this section will therefore be incomplete.

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	113.81Å 55.14Å 67.49Å 90.00° 94.06° 90.00°	Depositor
Resolution (Å)	20.00 – 2.04	Depositor
% Data completeness (in resolution range)	95.9 (20.00-2.04)	Depositor
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	REFMAC 5.1.24	Depositor
R, R_{free}	0.188 , 0.248	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	3161	wwPDB-VP
Average B, all atoms (Å ²)	31.0	wwPDB-VP

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ALY

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.72	0/971	0.76	1/1301 (0.1%)
1	B	0.75	0/953	0.79	2/1277 (0.2%)
1	C	0.71	0/913	0.78	1/1224 (0.1%)
2	P	0.96	0/32	1.06	0/39
2	Q	1.07	0/68	1.52	1/85 (1.2%)
All	All	0.74	0/2937	0.80	5/3926 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	Q	0	1

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	160	ASP	CB-CG-OD2	6.52	124.17	118.30
2	Q	7	GLY	N-CA-C	-6.50	96.85	113.10
1	C	160	ASP	CB-CG-OD1	5.37	123.13	118.30
1	B	122	ASP	CB-CG-OD2	5.25	123.03	118.30
1	B	144	ASP	CB-CG-OD2	5.16	122.94	118.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	Q	2	GLY	Peptide

5.2 Close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	953	0	946	29	0
1	B	935	0	932	35	0
1	C	895	0	895	14	0
2	P	46	0	42	4	0
2	Q	82	0	77	25	0
3	A	68	0	0	8	0
3	B	82	0	0	8	0
3	C	77	0	0	6	1
3	P	7	0	0	0	0
3	Q	16	0	0	4	0
All	All	3161	0	2892	85	1

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 15.

All (85) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:Q:1:SER:OG	2:Q:2:GLY:HA2	1.37	1.24
1:B:118:LYS:HB2	2:Q:1:SER:HB3	1.42	0.98
1:C:76:THR:HA	3:C:214:HOH:O	1.67	0.94
1:B:164:LEU:HD13	3:B:216:HOH:O	1.76	0.85
1:B:118:LYS:H	2:Q:1:SER:HB3	1.43	0.83
1:B:118:LYS:CB	2:Q:1:SER:HB3	2.11	0.80
1:A:159:THR:HG22	2:Q:3:ARG:O	1.82	0.79
1:B:118:LYS:H	2:Q:1:SER:CB	1.96	0.78
2:Q:1:SER:CB	2:Q:2:GLY:HA2	2.15	0.76
2:Q:5:LYS:HA	3:Q:25:HOH:O	1.85	0.76
1:A:182:GLN:HG3	1:B:180:MSE:O	1.87	0.74
1:B:153:TYR:O	2:Q:8:LYS:NZ	2.21	0.73
1:C:160:ASP:CG	1:C:162:ILE:HG22	2.09	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:B:253:HOH:O	2:Q:10:LEU:HD23	1.91	0.70
2:Q:10:LEU:HG	3:Q:24:HOH:O	1.92	0.69
2:P:14:GLY:HA2	2:P:15:ALA:HB2	1.77	0.66
1:B:116:ILE:N	1:B:116:ILE:HD13	2.12	0.65
1:B:161:ASP:OD1	2:Q:15:ALA:HB3	1.98	0.64
1:B:118:LYS:N	2:Q:1:SER:HB3	2.13	0.63
1:A:77:ASN:N	1:A:77:ASN:HD22	1.97	0.62
1:B:108:LEU:HD13	2:Q:12:ALY:HD3	1.82	0.62
1:A:101:GLN:HG3	3:A:250:HOH:O	2.00	0.61
1:B:116:ILE:HD11	2:Q:5:LYS:CB	2.32	0.59
1:B:101:GLN:HG2	3:B:246:HOH:O	2.01	0.59
1:A:77:ASN:H	1:A:77:ASN:HD22	1.51	0.59
1:C:156:ASN:OD1	1:C:162:ILE:HG21	2.04	0.58
1:A:97:TRP:CG	1:A:98:PRO:HD3	2.38	0.58
1:B:183:GLU:HG3	3:B:256:HOH:O	2.04	0.57
1:A:185:GLN:O	1:A:186:GLU:HB2	2.05	0.56
1:B:116:ILE:O	2:Q:1:SER:OG	2.23	0.56
1:B:117:ILE:HA	2:Q:1:SER:OG	2.06	0.56
1:A:182:GLN:H	1:B:182:GLN:NE2	2.04	0.55
1:A:73:GLY:HA2	1:A:133:ASN:O	2.07	0.55
1:B:116:ILE:N	1:B:116:ILE:CD1	2.69	0.55
1:A:76:THR:HA	1:A:186:GLU:HB2	1.89	0.55
1:A:182:GLN:H	1:B:182:GLN:HE21	1.55	0.55
1:B:97:TRP:CG	1:B:98:PRO:HD3	2.43	0.54
1:B:76:THR:HG23	3:B:231:HOH:O	2.08	0.54
2:Q:1:SER:OG	2:Q:2:GLY:CA	2.32	0.54
1:A:183:GLU:HA	3:A:245:HOH:O	2.07	0.53
1:A:171:LYS:HG2	1:B:143:GLN:OE1	2.09	0.53
1:C:97:TRP:CG	1:C:98:PRO:HD3	2.43	0.53
1:C:95:PHE:CG	1:C:165:MSE:HG2	2.44	0.53
1:B:154:ILE:HG21	2:Q:2:GLY:HA3	1.92	0.52
3:B:269:HOH:O	1:C:162:ILE:HB	2.10	0.51
1:A:75:VAL:O	1:A:186:GLU:HB3	2.11	0.51
1:A:86:VAL:HG22	1:A:176:LYS:HB3	1.93	0.51
1:B:158:PRO:CD	2:P:8:LYS:HA	2.41	0.50
2:Q:1:SER:HG	2:Q:2:GLY:HA2	1.68	0.49
2:Q:1:SER:CB	2:Q:2:GLY:CA	2.89	0.47
1:C:118:LYS:HD3	3:C:225:HOH:O	2.13	0.47
1:B:116:ILE:HD12	2:Q:5:LYS:H	1.79	0.47
1:B:110:LEU:HA	3:B:253:HOH:O	2.15	0.47
1:A:171:LYS:HG3	3:A:218:HOH:O	2.14	0.47
1:C:100:ARG:HD2	3:C:240:HOH:O	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:88:LYS:HE2	3:C:236:HOH:O	2.14	0.46
1:B:78:GLN:HB3	1:B:138:ALA:HB2	1.98	0.46
1:A:75:VAL:HB	3:A:226:HOH:O	2.16	0.45
1:A:101:GLN:HG2	3:A:214:HOH:O	2.17	0.45
1:A:167:GLN:O	1:A:171:LYS:HG3	2.15	0.45
1:B:90:LEU:HD12	1:B:145:PHE:CE1	2.52	0.45
1:B:143:GLN:HG2	3:B:262:HOH:O	2.15	0.45
1:B:97:TRP:CD2	1:B:98:PRO:HD3	2.51	0.45
1:B:115:LYS:HB2	1:B:116:ILE:HD13	1.98	0.45
1:C:95:PHE:CD1	1:C:165:MSE:HG2	2.52	0.45
1:B:118:LYS:HB2	2:Q:1:SER:CB	2.30	0.45
1:B:142:MSE:HE3	1:B:177:VAL:HG11	1.98	0.44
1:A:184:GLU:HB2	3:C:215:HOH:O	2.17	0.44
2:Q:10:LEU:HB3	3:Q:24:HOH:O	2.18	0.44
1:A:74:ARG:HD2	1:A:136:TRP:CD2	2.53	0.43
1:A:74:ARG:HD2	1:A:136:TRP:CE2	2.53	0.43
1:A:128:ARG:HD3	3:A:256:HOH:O	2.18	0.43
1:A:154:ILE:O	2:Q:8:LYS:HE3	2.19	0.42
1:C:181:PRO:O	1:C:182:GLN:HB2	2.21	0.41
1:C:164:LEU:HA	1:C:167:GLN:HE21	1.86	0.41
1:C:164:LEU:HD13	3:C:226:HOH:O	2.20	0.41
1:B:118:LYS:HE2	3:Q:23:HOH:O	2.21	0.41
1:A:97:TRP:CD2	1:A:98:PRO:HD3	2.56	0.41
1:A:164:LEU:HA	1:A:167:GLN:HE21	1.85	0.41
1:A:128:ARG:NE	3:A:235:HOH:O	2.55	0.41
1:A:77:ASN:ND2	1:A:77:ASN:N	2.67	0.40
3:A:217:HOH:O	2:P:10:LEU:HD12	2.21	0.40
1:B:118:LYS:HD2	1:B:118:LYS:HA	1.69	0.40
1:A:112:ASP:OD2	2:P:10:LEU:HB2	2.21	0.40
1:C:80:GLN:O	1:C:84:LYS:HB2	2.20	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:C:208:HOH:O	3:C:208:HOH:O[2_655]	1.90	0.30

5.3 Torsion angles

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	112/122 (92%)	111 (99%)	0	1 (1%)	25	11
1	B	110/122 (90%)	109 (99%)	0	1 (1%)	25	11
1	C	105/122 (86%)	104 (99%)	1 (1%)	0	100	100
2	P	5/15 (33%)	3 (60%)	2 (40%)	0	100	100
2	Q	12/15 (80%)	7 (58%)	3 (25%)	2 (17%)	0	0
All	All	344/396 (87%)	334 (97%)	6 (2%)	4 (1%)	19	7

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	184	GLU
2	Q	9	GLY
2	Q	10	LEU
1	B	75	VAL

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	104/105 (99%)	96 (92%)	8 (8%)	18	9
1	B	102/105 (97%)	95 (93%)	7 (7%)	22	13
1	C	98/105 (93%)	91 (93%)	7 (7%)	21	12
2	P	1/5 (20%)	1 (100%)	0	100	100
2	Q	3/5 (60%)	3 (100%)	0	100	100
All	All	308/325 (95%)	286 (93%)	22 (7%)	21	12

All (22) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	74	ARG
1	A	77	ASN
1	A	83	HIS
1	A	84	LYS
1	A	101	GLN
1	A	110	LEU
1	A	127	LYS
1	A	162	ILE
1	B	84	LYS
1	B	101	GLN
1	B	110	LEU
1	B	116	ILE
1	B	118	LYS
1	B	164	LEU
1	B	183	GLU
1	C	83	HIS
1	C	84	LYS
1	C	92	LYS
1	C	101	GLN
1	C	108	LEU
1	C	110	LEU
1	C	157	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	77	ASN
1	A	78	GLN
1	A	167	GLN
1	B	78	GLN
1	B	182	GLN
1	C	83	HIS
1	C	101	GLN
1	C	167	GLN

5.3.3 RNA ⓘ

There are no RNA chains in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

2 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
2	ALY	P	12	2	11,11,12	13.15	4 (36%)	10,12,14	3.10	3 (30%)
2	ALY	Q	12	2	11,11,12	13.50	4 (36%)	10,12,14	3.62	7 (70%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	ALY	P	12	2	-	0/8/10/12	0/0/0/0
2	ALY	Q	12	2	-	0/8/10/12	0/0/0/0

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Q	12	ALY	O-C	43.44	1.41	1.11
2	P	12	ALY	O-C	42.26	1.40	1.11
2	P	12	ALY	OH-CH	9.00	1.42	1.23
2	Q	12	ALY	OH-CH	8.88	1.42	1.23
2	P	12	ALY	CH-NZ	5.13	1.46	1.33
2	Q	12	ALY	CH-NZ	4.73	1.45	1.33
2	Q	12	ALY	CA-C	3.28	1.54	1.48
2	P	12	ALY	CA-C	2.11	1.52	1.48

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	P	12	ALY	OH-CH-CH3	-6.65	109.07	122.04
2	Q	12	ALY	OH-CH-CH3	-6.16	110.02	122.04
2	Q	12	ALY	OH-CH-NZ	-6.13	111.06	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Q	12	ALY	CE-NZ-CH	-5.34	113.53	122.32
2	P	12	ALY	C-CA-N	-5.31	108.53	113.83
2	P	12	ALY	OH-CH-NZ	-3.87	115.06	121.87
2	Q	12	ALY	CD-CE-NZ	3.42	122.52	112.21
2	Q	12	ALY	CH3-CH-NZ	2.29	119.66	116.14
2	Q	12	ALY	CB-CA-N	-2.17	104.32	110.67
2	Q	12	ALY	C-CA-N	-2.02	111.81	113.83

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

EDS was not executed - this section will therefore be empty.

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

EDS was not executed - this section will therefore be empty.

6.3 Carbohydrates ⓘ

EDS was not executed - this section will therefore be empty.

6.4 Ligands ⓘ

EDS was not executed - this section will therefore be empty.

6.5 Other polymers ⓘ

EDS was not executed - this section will therefore be empty.