



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 06:42 AM UTC

PDB ID : 1Q5T / pdb_00001q5t
Title : Gln48 PLA2 separated from Vipoxin from the venom of Vipera ammodytes meridionalis.
Authors : Georgieva, D.N.; Perbandt, M.; Rypniewski, W.; Hristov, K.; Genov, N.; Betzel, C.
Deposited on : 2003-08-11
Resolution : 1.90 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

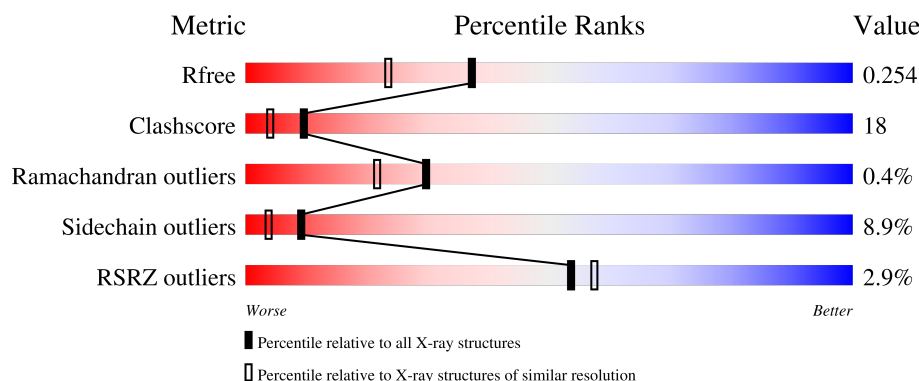
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

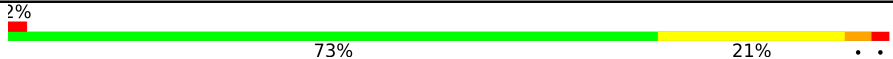
The reported resolution of this entry is 1.90 Å.

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))
R_{free}	180053	7789 (1.90-1.90)
Clashscore	190562	8410 (1.90-1.90)
Ramachandran outliers	187476	8333 (1.90-1.90)
Sidechain outliers	187428	8333 (1.90-1.90)
RSRZ outliers	180081	7790 (1.90-1.90)

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 of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	122	
1	B	122	

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 2250 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Phospholipase A2 inhibitor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	122	Total	C	N	O	S	0	0	0
			947	579	160	193	15			
1	B	122	Total	C	N	O	S	0	0	0
			947	579	160	193	15			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	55	ASN	VAL	SEE REMARK 999	UNP P04084
A	56	LEU	ASN	SEE REMARK 999	UNP P04084
A	59	VAL	ASP	SEE REMARK 999	UNP P04084
B	55	ASN	VAL	SEE REMARK 999	UNP P04084
B	56	LEU	ASN	SEE REMARK 999	UNP P04084
B	59	VAL	ASP	SEE REMARK 999	UNP P04084

- Molecule 2 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total O S 5 4 1	0	0
2	A	1	Total O S 5 4 1	0	0
2	A	1	Total O S 5 4 1	0	0
2	B	1	Total O S 5 4 1	0	0

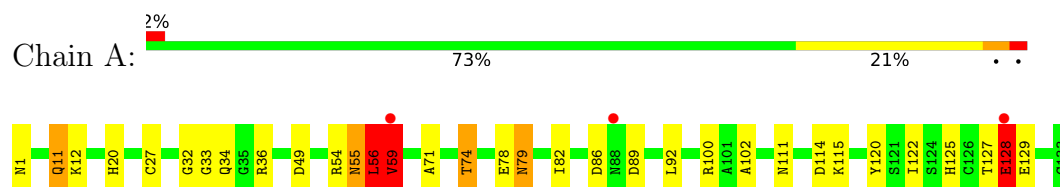
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	164	Total O 164 164	0	0
3	B	172	Total O 172 172	0	0

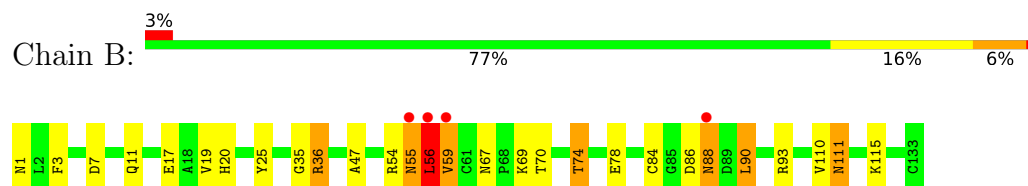
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes 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.

- Molecule 1: Phospholipase A2 inhibitor



- Molecule 1: Phospholipase A2 inhibitor



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 2 2	Depositor
Cell constants a, b, c, α , β , γ	58.95Å 58.95Å 139.12Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	10.00 – 1.90 10.00 – 1.90	Depositor EDS
% Data completeness (in resolution range)	100.0 (10.00-1.90) 93.1 (10.00-1.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	6.86 (at 1.89Å)	Xtriage
Refinement program	REFMAC 5.1.24	Depositor
R, R_{free}	0.185 , 0.254 0.197 , 0.254	Depositor DCC
R_{free} test set	991 reflections (5.11%)	wwPDB-VP
Wilson B-factor (Å ²)	19.0	Xtriage
Anisotropy	0.365	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.40 , 45.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	2250	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.05% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: SO4

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	1.47	8/965 (0.8%)	1.53	12/1303 (0.9%)
1	B	1.73	9/965 (0.9%)	1.51	10/1303 (0.8%)
All	All	1.60	17/1930 (0.9%)	1.52	22/2606 (0.8%)

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
1	A	0	3

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	36	ARG	CD-NE	-27.68	1.07	1.46
1	B	55	ASN	CA-CB	-16.15	1.00	1.53
1	A	59	VAL	C-N	15.28	1.54	1.33
1	B	54	ARG	C-N	-14.95	1.14	1.33
1	B	56	LEU	CA-CB	-12.33	1.32	1.53
1	B	36	ARG	NE-CZ	-11.54	1.20	1.33
1	A	55	ASN	CA-CB	-11.50	1.32	1.54
1	A	56	LEU	C-N	9.56	1.46	1.33
1	A	127	THR	C-N	8.43	1.45	1.33
1	A	56	LEU	CA-C	6.08	1.59	1.52
1	B	88	ASN	CB-CG	-5.86	1.37	1.52
1	B	88	ASN	CG-OD1	-5.83	1.12	1.23
1	A	54	ARG	C-N	5.68	1.41	1.33
1	A	128	GLU	C-N	5.47	1.41	1.33
1	B	47	ALA	CA-CB	5.41	1.61	1.53
1	A	102	ALA	CA-CB	5.14	1.61	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	55	ASN	N-CA	-5.12	1.39	1.46

All (22) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	55	ASN	CA-CB-CG	21.74	134.34	112.60
1	A	59	VAL	CA-CB-CG1	14.87	135.68	110.40
1	A	59	VAL	CB-CA-C	11.79	130.62	111.29
1	A	128	GLU	O-C-N	-11.61	109.91	123.03
1	A	59	VAL	N-CA-CB	-10.14	94.49	111.23
1	A	54	ARG	CA-C-N	-9.66	106.56	122.21
1	A	54	ARG	C-N-CA	-9.66	106.56	122.21
1	B	36	ARG	CB-CG-CD	-9.47	89.53	111.30
1	B	35	GLY	CA-C-N	-8.44	107.64	122.07
1	B	35	GLY	C-N-CA	-8.44	107.64	122.07
1	A	59	VAL	O-C-N	-8.18	112.35	122.57
1	B	55	ASN	N-CA-CB	-7.26	95.97	110.64
1	B	88	ASN	CB-CG-ND2	6.88	126.71	116.40
1	A	56	LEU	O-C-N	-6.85	115.20	123.29
1	A	127	THR	CA-C-N	-6.80	110.36	122.74
1	A	127	THR	C-N-CA	-6.80	110.36	122.74
1	B	78	GLU	N-CA-C	6.60	119.77	108.02
1	B	36	ARG	CA-CB-CG	5.67	125.45	114.10
1	B	88	ASN	CB-CG-OD1	-5.61	109.58	120.80
1	B	25	TYR	N-CA-C	5.30	117.88	109.24
1	A	128	GLU	CA-CB-CG	5.27	124.64	114.10
1	A	33	GLY	N-CA-C	-5.07	108.29	115.43

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	128	GLU	Mainchain
1	A	56	LEU	Mainchain
1	A	59	VAL	Mainchain

5.2 Too-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 hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within

the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	947	0	844	44	4
1	B	947	0	843	42	0
2	A	15	0	0	1	0
2	B	5	0	0	1	0
3	A	164	0	0	14	0
3	B	172	0	0	8	5
All	All	2250	0	1687	64	5

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 18.

All (64) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:59:VAL:CG2	1:B:56:LEU:HG	1.64	1.27
1:A:79:ASN:HB2	3:A:535:HOH:O	1.22	1.27
1:A:59:VAL:HG23	3:B:547:HOH:O	1.34	1.25
1:B:70:THR:HG21	3:B:505:HOH:O	1.21	1.25
1:A:59:VAL:HG22	1:B:56:LEU:CG	1.70	1.21
1:B:56:LEU:HD11	3:B:548:HOH:O	1.50	1.10
1:A:59:VAL:HG22	1:B:56:LEU:HG	1.14	1.09
1:B:59:VAL:O	1:B:59:VAL:HG12	1.56	1.05
1:B:56:LEU:CD1	3:B:548:HOH:O	2.05	0.93
1:B:59:VAL:O	1:B:59:VAL:CG1	2.19	0.91
1:A:59:VAL:HG22	1:B:56:LEU:CB	2.01	0.90
1:A:59:VAL:CG2	1:B:56:LEU:CB	2.51	0.89
1:A:59:VAL:CG2	1:B:56:LEU:HB3	2.07	0.85
1:A:59:VAL:CG2	1:B:56:LEU:CG	2.41	0.84
1:A:59:VAL:HG21	1:B:56:LEU:HG	1.64	0.78
1:B:111:ASN:ND2	3:B:509:HOH:O	2.20	0.75
1:A:114:ASP:HB2	3:A:485:HOH:O	1.86	0.74
1:A:74:THR:HG23	1:A:86:ASP:OD1	1.88	0.74
1:B:111:ASN:ND2	1:B:111:ASN:H	1.85	0.74
1:A:59:VAL:N	3:B:547:HOH:O	2.24	0.70
1:A:59:VAL:HG21	1:B:56:LEU:HB3	1.75	0.69
1:A:20:HIS:HE1	3:A:439:HOH:O	1.76	0.68
1:A:122:ILE:HD11	1:B:19:VAL:HG22	1.82	0.61
1:B:111:ASN:H	1:B:111:ASN:HD22	1.46	0.61
1:A:56:LEU:HD12	1:B:59:VAL:HA	1.83	0.60
1:A:79:ASN:CB	3:A:535:HOH:O	2.02	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:78:GLU:HG2	3:A:503:HOH:O	2.05	0.56
1:A:78:GLU:HG3	3:A:482:HOH:O	2.05	0.56
1:A:59:VAL:CG1	1:B:56:LEU:HG	2.36	0.56
1:B:36:ARG:HD2	2:B:403:SO4:O3	2.06	0.56
1:A:49:ASP:OD1	1:B:69:LYS:HD3	2.06	0.55
1:A:79:ASN:CG	3:A:535:HOH:O	2.41	0.55
1:B:59:VAL:N	3:B:547:HOH:O	2.00	0.55
1:A:122:ILE:HD12	1:B:17:GLU:HG2	1.89	0.54
1:A:59:VAL:HG13	1:B:56:LEU:HG	1.90	0.54
1:A:59:VAL:HG22	1:B:56:LEU:CD1	2.34	0.53
1:B:74:THR:HG22	1:B:86:ASP:OD1	2.08	0.53
1:A:20:HIS:CE1	3:A:439:HOH:O	2.58	0.52
1:A:59:VAL:HG22	1:B:56:LEU:CA	2.39	0.52
1:A:122:ILE:HD11	1:B:19:VAL:CG2	2.40	0.52
1:A:78:GLU:CG	3:A:482:HOH:O	2.60	0.50
3:A:529:HOH:O	1:B:20:HIS:HD2	1.94	0.49
1:B:7:ASP:OD2	1:B:11:GLN:OE1	2.31	0.48
1:A:92:LEU:HD13	3:A:555:HOH:O	2.13	0.48
1:A:120:TYR:CE2	1:A:125:HIS:HB2	2.49	0.48
1:A:89:ASP:HB2	2:A:404:SO4:O4	2.13	0.48
1:B:67:ASN:HD22	1:B:67:ASN:C	2.21	0.48
1:A:27:CYS:O	1:A:32:GLY:HA3	2.14	0.47
1:B:84:CYS:O	1:B:93:ARG:NH1	2.48	0.46
1:B:56:LEU:HD12	3:B:548:HOH:O	1.92	0.46
1:A:82:ILE:HB	1:A:100:ARG:HG3	1.98	0.45
1:A:27:CYS:HB3	1:A:34:GLN:O	2.17	0.44
1:A:114:ASP:CB	3:A:485:HOH:O	2.55	0.44
1:A:59:VAL:HG22	1:B:56:LEU:HA	1.99	0.43
1:A:59:VAL:HG23	1:B:59:VAL:H	1.80	0.43
1:B:1:ASN:OD1	1:B:1:ASN:C	2.62	0.42
1:A:11:GLN:NE2	1:A:12:LYS:HD3	2.34	0.42
3:A:553:HOH:O	1:B:70:THR:HG22	2.20	0.41
1:B:90:LEU:H	1:B:90:LEU:HD23	1.85	0.41
1:A:32:GLY:HA2	1:B:3:PHE:HB2	2.02	0.41
1:A:78:GLU:CD	3:A:482:HOH:O	2.62	0.41
1:B:90:LEU:N	1:B:90:LEU:CD2	2.84	0.41
1:A:1:ASN:N	1:A:71:ALA:O	2.50	0.40
1:A:59:VAL:HG21	1:B:56:LEU:CB	2.39	0.40

All (5) 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	Interatomic distance (Å)	Clash overlap (Å)
3:B:502:HOH:O	3:B:560:HOH:O[7_645]	0.34	1.86
1:A:128:GLU:CD	3:B:566:HOH:O[3_655]	0.71	1.49
1:A:128:GLU:OE2	3:B:566:HOH:O[3_655]	0.74	1.46
1:A:128:GLU:CG	3:B:566:HOH:O[3_655]	1.77	0.43
1:A:128:GLU:OE1	3:B:566:HOH:O[3_655]	1.92	0.28

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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	120/122 (98%)	112 (93%)	7 (6%)	1 (1%)	16	8
1	B	120/122 (98%)	111 (92%)	9 (8%)	0	100	100
All	All	240/244 (98%)	223 (93%)	16 (7%)	1 (0%)	30	22

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	59	VAL

5.3.2 Protein sidechains [i](#)

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	101/101 (100%)	92 (91%)	9 (9%)	9	4
1	B	101/101 (100%)	92 (91%)	9 (9%)	9	4
All	All	202/202 (100%)	184 (91%)	18 (9%)	9	4

All (18) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	11	GLN
1	A	36	ARG
1	A	55	ASN
1	A	56	LEU
1	A	74	THR
1	A	79	ASN
1	A	111	ASN
1	A	115	LYS
1	A	129	GLU
1	B	55	ASN
1	B	56	LEU
1	B	59	VAL
1	B	74	THR
1	B	88	ASN
1	B	90	LEU
1	B	110	VAL
1	B	111	ASN
1	B	115	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	11	GLN
1	A	20	HIS
1	A	38	GLN
1	A	48	GLN
1	A	79	ASN
1	A	132	GLN
1	B	20	HIS
1	B	48	GLN
1	B	55	ASN
1	B	67	ASN
1	B	88	ASN
1	B	111	ASN
1	B	132	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

4 ligands 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	SO4	B	403	-	4,4,4	0.12	0	6,6,6	0.85	0
2	SO4	A	404	-	4,4,4	0.39	0	6,6,6	0.30	0
2	SO4	A	402	-	4,4,4	0.44	0	6,6,6	0.31	0
2	SO4	A	401	-	4,4,4	0.35	0	6,6,6	0.92	0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	403	SO4	1	0
2	A	404	SO4	1	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	B	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	54:ARG	C	55:ASN	N	1.14

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	122/122 (100%)	-0.32	3 (2%) 58 62	13, 20, 32, 42	0
1	B	122/122 (100%)	-0.31	4 (3%) 49 52	14, 20, 35, 46	0
All	All	244/244 (100%)	-0.32	7 (2%) 53 57	13, 20, 35, 46	0

All (7) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	88	ASN	4.3
1	B	59	VAL	3.4
1	B	56	LEU	3.2
1	A	59	VAL	2.8
1	A	88	ASN	2.7
1	B	55	ASN	2.5
1	A	128	GLU	2.3

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q < 0.9’ lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	SO4	A	402	5/5	0.92	0.07	21,21,22,24	5
2	SO4	A	404	5/5	0.93	0.17	30,36,38,38	5
2	SO4	A	401	5/5	0.97	0.06	32,32,36,38	0
2	SO4	B	403	5/5	0.98	0.05	24,25,33,33	0

6.5 Other polymers [i](#)

There are no such residues in this entry.