



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 07:14 PM UTC

PDB ID : 1P1U / pdb_00001p1u
Title : Crystal structure of the GluR2 ligand-binding core (S1S2J) L650T mutant in complex with AMPA (ammonium sulfate crystal form)
Authors : Armstrong, N.; Mayer, M.L.; Gouaux, E.
Deposited on : 2003-04-14
Resolution : 2.00 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

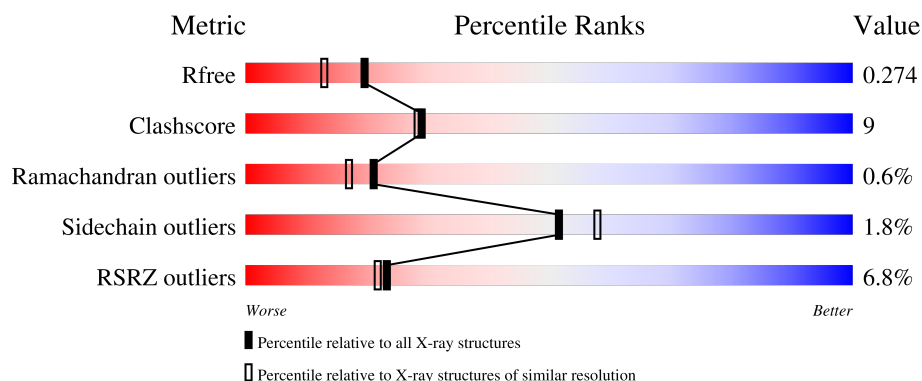
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

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	263	6% 84% 13% ..
1	B	263	8% 74% 23% ..

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4074 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 Glutamate receptor 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	258	Total	C	N	O	S	0	0	0
			1942	1236	325	368	13			
1	B	258	Total	C	N	O	S	0	0	0
			1924	1226	316	369	13			

There are 10 discrepancies between the modelled and reference sequences:

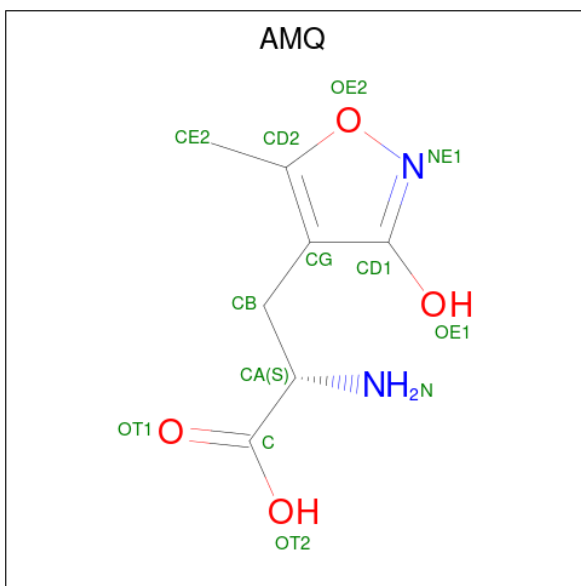
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	cloning artifact	UNP P19491
A	2	ALA	-	cloning artifact	UNP P19491
A	118	GLY	-	linker	UNP P19491
A	119	THR	-	linker	UNP P19491
A	138	THR	LEU	engineered mutation	UNP P19491
B	1	GLY	-	cloning artifact	UNP P19491
B	2	ALA	-	cloning artifact	UNP P19491
B	118	GLY	-	linker	UNP P19491
B	119	THR	-	linker	UNP P19491
B	138	THR	LEU	engineered mutation	UNP P19491

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



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

- Molecule 3 is (S)-ALPHA-AMINO-3-HYDROXY-5-METHYL-4-ISOXAZOLEPROPIONIC ACID (CCD ID: AMQ) (formula: C₇H₁₀N₂O₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			13	7	2	4		
3	B	1	Total	C	N	O	0	0
			13	7	2	4		

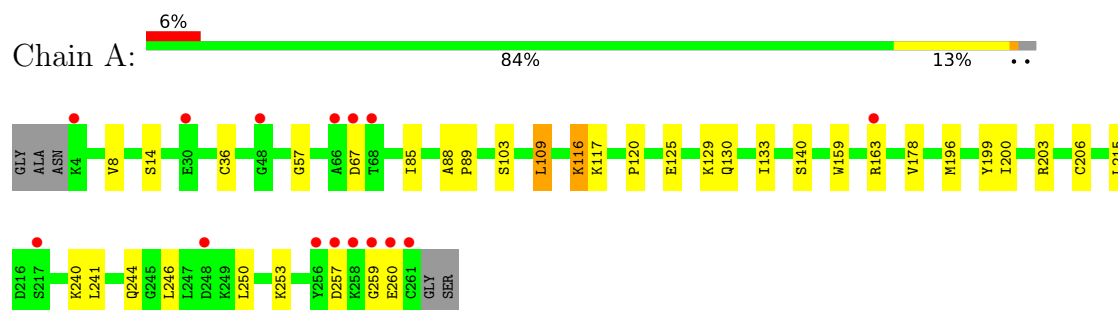
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	96	Total 96	O 96	0	0
4	B	81	Total 81	O 81	0	0

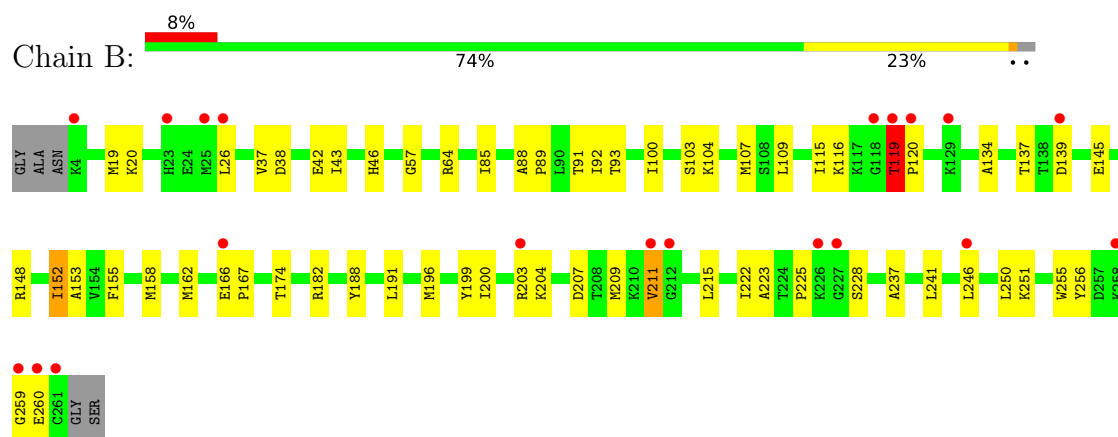
3 Residue-property plots [i](#)

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: Glutamate receptor 2



• Molecule 1: Glutamate receptor 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	61.43Å 96.38Å 95.97Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.61 – 2.00 19.61 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.5 (19.61-2.00) 99.5 (19.61-2.00)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	14.99 (at 2.00Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.238 , 0.271 0.242 , 0.274	Depositor DCC
R_{free} test set	3973 reflections (10.18%)	wwPDB-VP
Wilson B-factor (Å ²)	14.0	Xtriage
Anisotropy	0.227	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 48.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.010 for -h,l,k	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	4074	wwPDB-VP
Average B, all atoms (Å ²)	15.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 11.53% 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

5.1 Standard geometry

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

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	0.37	0/1978	0.85	5/2672 (0.2%)
1	B	0.36	0/1960	0.87	9/2653 (0.3%)
All	All	0.36	0/3938	0.86	14/5325 (0.3%)

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	1	0

There are no bond length outliers.

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	B	256	TYR	N-CA-C	6.49	121.40	112.90
1	A	116	LYS	N-CA-C	-6.26	100.31	110.20
1	B	57	GLY	N-CA-C	6.19	120.16	112.73
1	A	103	SER	N-CA-C	-5.83	103.00	110.53
1	B	103	SER	N-CA-C	-5.72	103.15	110.53
1	B	211	VAL	N-CA-C	5.64	116.87	108.46
1	A	57	GLY	N-CA-C	5.50	119.30	112.64
1	A	140	SER	N-CA-C	5.35	118.96	111.74
1	B	37	VAL	N-CA-C	-5.22	105.62	110.53
1	B	119	THR	CA-C-N	5.17	126.30	119.84
1	B	119	THR	C-N-CA	5.17	126.30	119.84
1	B	153	ALA	N-CA-C	5.12	119.77	111.37
1	A	130	GLN	N-CA-C	5.11	116.44	109.18
1	B	104	LYS	N-CA-C	-5.06	102.81	109.84

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	152	ILE	CB

There are no planarity outliers.

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	1942	0	1895	20	0
1	B	1924	0	1864	47	0
2	A	5	0	0	0	0
3	A	13	0	8	0	0
3	B	13	0	8	0	0
4	A	96	0	0	2	0
4	B	81	0	0	7	0
All	All	4074	0	3775	67	0

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 9.

All (67) 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:B:241:LEU:HD22	1:B:246:LEU:HD23	1.42	1.01
1:B:91:THR:HG22	4:B:265:HOH:O	1.62	0.97
1:B:116:LYS:O	1:B:119:THR:HG23	1.81	0.81
1:B:88:ALA:HB1	1:B:89:PRO:HD2	1.61	0.80
1:B:107:MET:HE2	1:B:251:LYS:HD3	1.70	0.73
1:B:209:MET:HE2	1:B:211:VAL:HG12	1.75	0.67
1:B:93:THR:CG2	4:B:265:HOH:O	2.44	0.65
1:A:116:LYS:HE3	4:A:366:HOH:O	1.95	0.65
1:A:88:ALA:HB1	1:A:89:PRO:HD2	1.80	0.63
1:B:100:ILE:HD12	1:B:223:ALA:HB1	1.80	0.62
1:B:93:THR:HG23	4:B:265:HOH:O	1.98	0.61
1:B:204:LYS:H	1:B:260:GLU:HG3	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:LYS:HE2	1:A:206:CYS:O	2.03	0.59
1:B:42:GLU:CD	1:B:246:LEU:HD21	2.28	0.58
1:A:109:LEU:C	1:A:109:LEU:HD22	2.29	0.58
1:B:152:ILE:C	1:B:152:ILE:HD13	2.29	0.58
1:B:115:ILE:HD11	1:B:211:VAL:HG11	1.86	0.57
1:B:19:MET:HE2	4:B:324:HOH:O	2.03	0.57
1:A:116:LYS:HE2	4:A:315:HOH:O	2.05	0.57
1:B:204:LYS:HG3	1:B:260:GLU:O	2.05	0.56
1:B:152:ILE:HD12	1:B:155:PHE:CD2	2.40	0.55
1:B:152:ILE:HD13	1:B:155:PHE:H	1.71	0.55
1:B:174:THR:HG21	1:B:196:MET:HE2	1.88	0.54
1:A:36:CYS:SG	1:A:88:ALA:HA	2.50	0.51
1:B:158:MET:O	1:B:162:MET:HG3	2.10	0.51
1:B:93:THR:HG22	4:B:265:HOH:O	2.11	0.49
1:B:196:MET:HE1	1:B:200:ILE:HD11	1.93	0.49
1:B:225:PRO:HG2	1:B:228:SER:HB2	1.94	0.49
1:A:199:TYR:O	1:A:203:ARG:HG2	2.13	0.49
1:B:182:ARG:HG2	1:B:207:ASP:OD2	2.12	0.49
1:A:8:VAL:HG22	1:A:85:ILE:CG2	2.43	0.49
1:A:240:LYS:O	1:A:244:GLN:HG3	2.13	0.48
1:A:159:TRP:HZ2	1:A:163:ARG:HE	1.60	0.48
1:A:120:PRO:HD2	1:A:133:ILE:HD11	1.95	0.48
1:B:137:THR:HG22	1:B:191:LEU:HB2	1.97	0.47
1:B:166:GLU:HA	1:B:167:PRO:C	2.40	0.47
1:B:42:GLU:O	1:B:46:HIS:HD2	1.98	0.47
1:B:88:ALA:HB1	1:B:89:PRO:CD	2.38	0.47
1:A:253:LYS:O	1:A:257:ASP:HB2	2.15	0.46
1:B:20:LYS:HD2	1:B:26:LEU:CD1	2.45	0.46
1:B:85:ILE:HD11	1:B:222:ILE:HG21	1.96	0.46
1:B:119:THR:HA	1:B:120:PRO:HD3	1.76	0.45
1:A:159:TRP:HE1	1:A:163:ARG:CZ	2.29	0.45
1:B:152:ILE:CD1	1:B:155:PHE:H	2.29	0.45
1:B:92:ILE:O	4:B:265:HOH:O	2.21	0.45
1:A:203:ARG:HA	1:A:260:GLU:HB2	1.99	0.44
1:B:215:LEU:HD12	1:B:215:LEU:N	2.32	0.44
1:B:199:TYR:CZ	1:B:203:ARG:HD2	2.52	0.44
1:B:38:ASP:CB	1:B:250:LEU:HD21	2.48	0.43
1:B:209:MET:HG3	1:B:211:VAL:HG13	1.99	0.43
1:B:85:ILE:HD11	1:B:222:ILE:CG2	2.48	0.43
1:B:139:ASP:O	1:B:139:ASP:OD1	2.36	0.43
1:B:152:ILE:HD13	1:B:152:ILE:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:SER:O	1:A:196:MET:HE1	2.19	0.42
1:A:178:VAL:HG21	1:A:200:ILE:HD13	2.00	0.42
1:B:42:GLU:HG3	1:B:246:LEU:HD21	2.01	0.42
1:B:115:ILE:CD1	1:B:211:VAL:HG11	2.48	0.42
1:A:125:GLU:HG2	1:A:129:LYS:HZ2	1.85	0.42
1:A:241:LEU:HD22	1:A:246:LEU:HD12	2.02	0.41
1:B:92:ILE:C	4:B:265:HOH:O	2.62	0.41
1:B:145:GLU:OE1	1:B:148:ARG:NH1	2.53	0.41
1:A:159:TRP:HE1	1:A:163:ARG:NE	2.18	0.41
1:B:251:LYS:HD2	1:B:255:TRP:CE3	2.55	0.41
1:A:215:LEU:HD12	1:A:215:LEU:N	2.36	0.41
1:B:237:ALA:O	1:B:241:LEU:HG	2.21	0.40
1:B:38:ASP:HB3	1:B:250:LEU:HD21	2.04	0.40
1:B:134:ALA:O	1:B:188:TYR:HA	2.21	0.40

There are no symmetry-related clashes.

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	256/263 (97%)	248 (97%)	6 (2%)	2 (1%)	16	11
1	B	256/263 (97%)	249 (97%)	6 (2%)	1 (0%)	30	27
All	All	512/526 (97%)	497 (97%)	12 (2%)	3 (1%)	21	17

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	259	GLY
1	A	67	ASP
1	B	259	GLY

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	198/219 (90%)	196 (99%)	2 (1%)	68	75
1	B	196/219 (90%)	191 (97%)	5 (3%)	40	44
All	All	394/438 (90%)	387 (98%)	7 (2%)	51	58

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	109	LEU
1	A	250	LEU
1	B	43	ILE
1	B	64	ARG
1	B	109	LEU
1	B	119	THR
1	B	152	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	46	HIS
1	B	46	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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](#)

3 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	A	301	-	4,4,4	0.17	0	6,6,6	0.06	0
3	AMQ	B	264	-	12,13,13	1.03	1 (8%)	9,18,18	1.24	1 (11%)
3	AMQ	A	302	-	12,13,13	0.96	1 (8%)	9,18,18	1.18	1 (11%)

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
3	AMQ	B	264	-	-	0/8/8/8	0/1/1/1
3	AMQ	A	302	-	-	1/8/8/8	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	264	AMQ	OE2-CD2	2.12	1.39	1.34
3	A	302	AMQ	OE2-CD2	2.04	1.38	1.34

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	264	AMQ	OE1-CD1-CG	-3.07	116.41	124.43
3	A	302	AMQ	OE1-CD1-CG	-2.90	116.85	124.43

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	302	AMQ	OT2-C-CA-CB

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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	258/263 (98%)	0.29	15 (5%) 29 27	7, 13, 27, 60	0
1	B	258/263 (98%)	0.36	20 (7%) 19 18	5, 14, 29, 50	0
All	All	516/526 (98%)	0.32	35 (6%) 23 22	5, 14, 28, 60	0

All (35) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	261	CYS	10.4
1	A	256	TYR	9.8
1	B	261	CYS	9.5
1	A	259	GLY	9.1
1	B	259	GLY	8.5
1	A	257	ASP	8.1
1	A	258	LYS	7.7
1	A	67	ASP	6.1
1	B	260	GLU	5.9
1	B	258	LYS	4.7
1	A	260	GLU	4.5
1	B	211	VAL	4.3
1	B	227	GLY	4.1
1	B	212	GLY	3.8
1	A	68	THR	3.8
1	B	203	ARG	3.7
1	B	119	THR	3.1
1	B	246	LEU	3.1
1	B	120	PRO	3.0
1	A	163	ARG	2.8
1	B	4	LYS	2.7
1	B	166	GLU	2.6
1	A	48	GLY	2.5
1	B	129	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	25	MET	2.4
1	A	248	ASP	2.3
1	B	226	LYS	2.3
1	B	118	GLY	2.3
1	A	66	ALA	2.2
1	B	23	HIS	2.2
1	A	30	GLU	2.1
1	A	217	SER	2.1
1	B	139	ASP	2.1
1	A	4	LYS	2.0
1	B	26	LEU	2.0

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
3	AMQ	B	264	13/13	0.92	0.09	12,13,16,24	0
3	AMQ	A	302	13/13	0.93	0.09	11,14,19,26	0
2	SO4	A	301	5/5	0.96	0.08	23,24,25,26	0

6.5 Other polymers [i](#)

There are no such residues in this entry.