



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 7, 2026 – 03:00 AM UTC

PDB ID : 4U4X / pdb_00004u4x
Title : Crystal structure of the GluA2 ligand-binding domain (S1S2J-L483Y-N754S) in complex with glutamate and BPAM37 at 1.56 Å resolution.
Authors : Noerholm, A.B.; Frydenvang, K.; Kastrup, J.S.
Deposited on : 2014-07-24
Resolution : 1.56 Å(reported)

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

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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

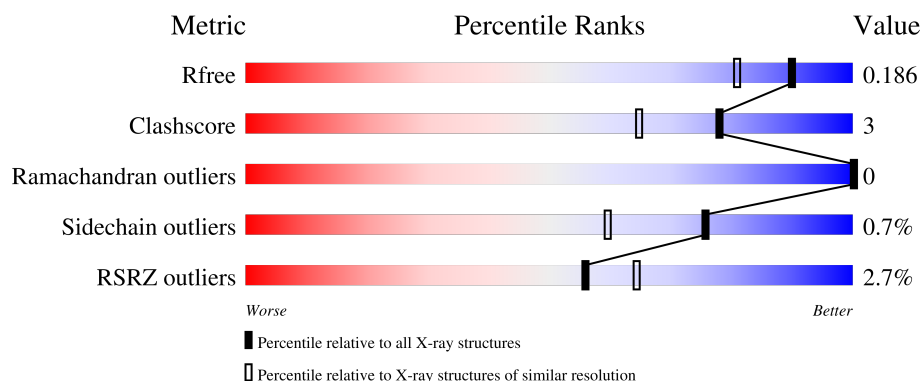
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.56 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	2145 (1.56-1.56)
Clashscore	190562	2189 (1.56-1.56)
Ramachandran outliers	187476	2153 (1.56-1.56)
Sidechain outliers	187428	2150 (1.56-1.56)
RSRZ outliers	180081	2146 (1.56-1.56)

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	2% 95% 5%
1	B	263	4% 95% 5%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	ACT	B	808	-	-	X	-
7	PEG	A	810	-	-	X	-

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 4852 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.

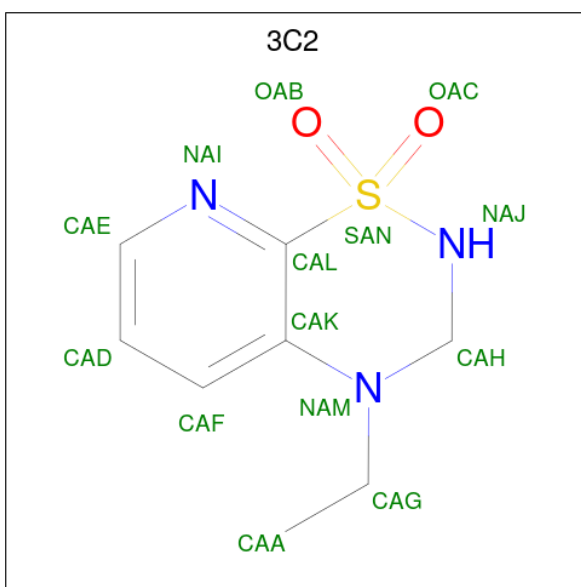
- Molecule 1 is a protein called Glutamate receptor 2, Glutamate receptor 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	263	Total	C	N	O	S	0	10	0
			2098	1342	342	399	15			
1	B	259	Total	C	N	O	S	0	4	0
			2043	1305	337	386	15			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	390	GLY	-	expression tag	UNP P19491
A	391	ALA	-	expression tag	UNP P19491
A	483	TYR	LEU	engineered mutation	UNP P19491
A	507	GLY	-	linker	UNP P19491
A	508	THR	-	linker	UNP P19491
A	754	SER	ASN	engineered mutation	UNP P19491
B	390	GLY	-	expression tag	UNP P19491
B	391	ALA	-	expression tag	UNP P19491
B	483	TYR	LEU	engineered mutation	UNP P19491
B	507	GLY	-	linker	UNP P19491
B	508	THR	-	linker	UNP P19491
B	754	SER	ASN	engineered mutation	UNP P19491

- Molecule 2 is 4-ethyl-3,4-dihydro-2H-pyrido[3,2-e][1,2,4]thiadiazine 1,1-dioxide (CCD ID: 3C2) (formula: C₈H₁₁N₃O₂S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	S	0	0
			14	8	3	2	1		
2	B	1	Total	C	N	O	S	0	0
			14	8	3	2	1		

- Molecule 3 is SULFATE ION (CCD ID: SO₄) (formula: O₄S).



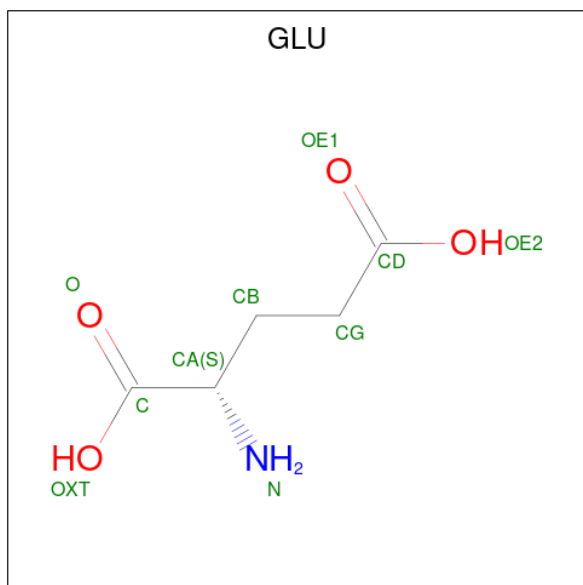
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		

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

- Molecule 4 is GLUTAMIC ACID (CCD ID: GLU) (formula: $C_5H_9NO_4$).



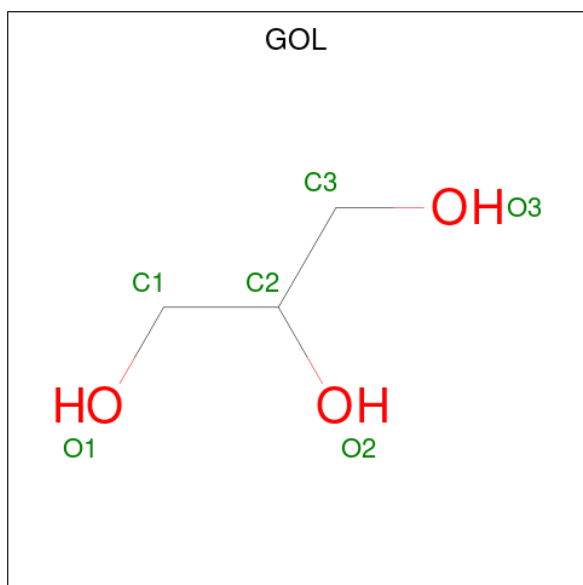
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	N	O	0	0
			10	5	1	4		
4	B	1	Total	C	N	O	0	0
			10	5	1	4		

- Molecule 5 is ACETATE ION (CCD ID: ACT) (formula: $C_2H_3O_2$).



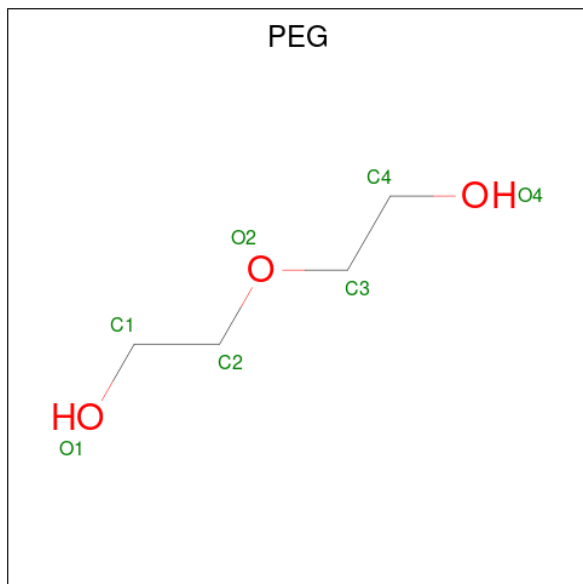
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			4	2	2		
5	B	1	Total	C	O	0	0
			4	2	2		
5	B	1	Total	C	O	0	0
			4	2	2		
5	B	1	Total	C	O	0	0
			4	2	2		

- Molecule 6 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			6	3	3		
6	A	1	Total	C	O	0	0
			6	3	3		
6	A	1	Total	C	O	0	0
			6	3	3		

- Molecule 7 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	A	1	Total	C	O	0	0
			7	4	3		
7	A	1	Total	C	O	0	0
			7	4	3		

- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	318	Total	O	0	0
			318	318		
8	B	272	Total	O	0	0
			272	272		

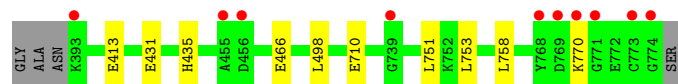
3 Residue-property plots [i](#)

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, Glutamate receptor 2



- Molecule 1: Glutamate receptor 2, Glutamate receptor 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	98.29Å 121.57Å 47.36Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.04 – 1.56 29.04 – 1.56	Depositor EDS
% Data completeness (in resolution range)	99.7 (29.04-1.56) 99.7 (29.04-1.56)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.04	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.01 (at 1.56Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.4_1496)	Depositor
R, R_{free}	0.150 , 0.175 0.163 , 0.186	Depositor DCC
R_{free} test set	4084 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	16.1	Xtriage
Anisotropy	0.176	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 49.4	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	0.97	EDS
Total number of atoms	4852	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 21.45 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 7.0031e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: ACT, SO4, GOL, 3C2, PEG

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	0.58	0/2165	0.71	0/2909
1	B	0.53	0/2092	0.69	0/2813
All	All	0.56	0/4257	0.70	0/5722

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

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	2098	0	2152	17	0
1	B	2043	0	2083	8	0
2	A	14	0	11	0	0
2	B	14	0	11	0	0
3	A	10	0	0	0	0
3	B	15	0	0	0	0
4	A	10	0	5	0	0
4	B	10	0	5	0	0
5	A	4	0	3	0	0
5	B	12	0	9	4	0
6	A	18	0	24	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	A	14	0	18	7	0
8	A	318	0	0	3	0
8	B	272	0	0	4	0
All	All	4852	0	4321	24	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 3.

All (24) 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:466[B]:GLU:OE1	8:A:1012:HOH:O	2.08	0.72
1:B:753:LEU:HD22	1:B:758[B]:LEU:HD23	1.76	0.67
1:A:719:ASP:HB2	7:A:810:PEG:H22	1.77	0.66
1:A:420:ARG:HH12	7:A:809:PEG:H11	1.67	0.57
1:B:466:GLU:OE1	8:B:1044:HOH:O	2.19	0.53
1:B:710:GLU:OE2	8:B:1116:HOH:O	2.19	0.52
1:A:441:LYS:HZ1	7:A:809:PEG:H31	1.74	0.52
1:B:770:LYS:NZ	8:B:904:HOH:O	2.43	0.51
1:A:675:ARG:HE	6:A:806:GOL:C1	2.25	0.50
1:A:483:TYR:HE2	5:B:808:ACT:H3	1.77	0.48
1:A:486:GLU:HG3	1:B:751:LEU:CD1	2.43	0.47
1:B:431:GLU:HG3	1:B:758[B]:LEU:HD21	1.96	0.46
1:A:483:TYR:OH	5:B:808:ACT:H1	2.15	0.46
1:A:719:ASP:CB	7:A:810:PEG:H22	2.43	0.46
1:A:675:ARG:HE	6:A:806:GOL:H11	1.81	0.45
1:A:719:ASP:HB3	7:A:810:PEG:H32	1.98	0.45
1:A:710:GLU:OE1	8:A:1168:HOH:O	2.20	0.44
1:A:744:ASN:ND2	8:A:1156:HOH:O	2.50	0.44
1:A:483:TYR:CE2	5:B:808:ACT:H3	2.53	0.43
1:B:413:GLU:HG3	8:B:942:HOH:O	2.18	0.42
1:A:441:LYS:NZ	7:A:809:PEG:H31	2.34	0.42
1:A:394:THR:H	6:A:807:GOL:H11	1.85	0.41
1:A:505[A]:LYS:HE2	7:A:810:PEG:H22	2.03	0.41
1:B:435:HIS:HB3	5:B:808:ACT:O	2.20	0.40

There are no symmetry-related clashes.

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	271/263 (103%)	269 (99%)	2 (1%)	0	100	100
1	B	261/263 (99%)	256 (98%)	5 (2%)	0	100	100
All	All	532/526 (101%)	525 (99%)	7 (1%)	0	100	100

There are no Ramachandran outliers to report.

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	229/219 (105%)	227 (99%)	2 (1%)	70	51
1	B	221/219 (101%)	220 (100%)	1 (0%)	81	68
All	All	450/438 (103%)	447 (99%)	3 (1%)	76	59

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	498	LEU
1	A	770	LYS
1	B	498	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

18 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$
3	SO4	A	802	-	4,4,4	0.31	0	6,6,6	0.56	0
5	ACT	B	808	-	3,3,3	0.69	0	3,3,3	1.34	0
7	PEG	A	810	-	6,6,6	0.60	0	5,5,5	0.30	0
2	3C2	A	801	-	13,15,15	2.25	5 (38%)	13,22,22	3.20	4 (30%)
7	PEG	A	809	-	6,6,6	0.59	0	5,5,5	0.22	0
5	ACT	B	807	-	3,3,3	0.79	0	3,3,3	1.26	0
4	GLU	A	804	-	8,9,9	1.21	1 (12%)	8,11,11	0.77	0
6	GOL	A	807	-	5,5,5	0.38	0	5,5,5	0.37	0
3	SO4	B	803	-	4,4,4	0.27	0	6,6,6	0.24	0
5	ACT	B	806	-	3,3,3	0.81	0	3,3,3	1.24	0
3	SO4	B	804	-	4,4,4	0.31	0	6,6,6	0.14	0
6	GOL	A	806	-	5,5,5	0.32	0	5,5,5	0.36	0
5	ACT	A	805	-	3,3,3	0.74	0	3,3,3	1.45	0
6	GOL	A	808	-	5,5,5	0.39	0	5,5,5	0.22	0
2	3C2	B	801	-	13,15,15	2.74	4 (30%)	13,22,22	3.04	3 (23%)
4	GLU	B	805	-	8,9,9	1.01	0	8,11,11	0.90	0
3	SO4	A	803	-	4,4,4	0.31	0	6,6,6	0.23	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	SO4	B	802	-	4,4,4	0.26	0	6,6,6	0.24	0

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
7	PEG	A	810	-	-	3/4/4/4	-
2	3C2	A	801	-	-	0/2/18/18	0/2/2/2
6	GOL	A	807	-	-	2/4/4/4	-
4	GLU	A	804	-	-	0/9/9/9	-
6	GOL	A	806	-	-	4/4/4/4	-
6	GOL	A	808	-	-	2/4/4/4	-
2	3C2	B	801	-	-	0/2/18/18	0/2/2/2
4	GLU	B	805	-	-	0/9/9/9	-
7	PEG	A	809	-	-	1/4/4/4	-

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	801	3C2	OAB-SAN	7.38	1.52	1.43
2	B	801	3C2	OAC-SAN	5.04	1.49	1.43
2	A	801	3C2	OAC-SAN	4.80	1.49	1.43
2	A	801	3C2	OAB-SAN	4.70	1.49	1.43
2	A	801	3C2	CAE-NAI	2.68	1.40	1.34
2	A	801	3C2	CAK-NAM	-2.48	1.36	1.43
2	B	801	3C2	CAE-NAI	2.35	1.39	1.34
2	B	801	3C2	CAK-NAM	-2.26	1.37	1.43
4	A	804	GLU	OXT-C	-2.06	1.24	1.30
2	A	801	3C2	CAL-NAI	2.02	1.35	1.33

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	801	3C2	CAH-NAM-CAK	10.30	121.97	110.67
2	B	801	3C2	CAH-NAM-CAK	9.30	120.87	110.67
2	B	801	3C2	CAE-NAI-CAL	3.80	119.98	116.88
2	A	801	3C2	CAE-NAI-CAL	2.46	118.88	116.88
2	A	801	3C2	OAC-SAN-NAJ	-2.38	105.72	107.92
2	B	801	3C2	CAD-CAF-CAK	2.08	122.49	118.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	801	3C2	CAD-CAE-NAI	-2.07	120.15	123.42

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	A	806	GOL	C1-C2-C3-O3
6	A	808	GOL	O1-C1-C2-C3
6	A	808	GOL	O1-C1-C2-O2
7	A	810	PEG	O2-C3-C4-O4
6	A	806	GOL	O1-C1-C2-C3
6	A	807	GOL	O1-C1-C2-C3
7	A	809	PEG	O2-C3-C4-O4
7	A	810	PEG	O1-C1-C2-O2
6	A	806	GOL	O2-C2-C3-O3
7	A	810	PEG	C4-C3-O2-C2
6	A	807	GOL	O1-C1-C2-O2
6	A	806	GOL	O1-C1-C2-O2

There are no ring outliers.

5 monomers are involved in 14 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	B	808	ACT	4	0
7	A	810	PEG	4	0
7	A	809	PEG	3	0
6	A	807	GOL	1	0
6	A	806	GOL	2	0

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 [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	263/263 (100%)	-0.17	4 (1%) 72 79	8, 16, 40, 62	10 (3%)
1	B	259/263 (98%)	0.15	10 (3%) 43 51	10, 22, 49, 79	4 (1%)
All	All	522/526 (99%)	-0.01	14 (2%) 56 64	8, 19, 45, 79	14 (2%)

All (14) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	770	LYS	4.5
1	B	768	TYR	4.4
1	B	774	GLY	4.3
1	B	769	ASP	4.2
1	B	771	GLY	3.4
1	B	773	CYS	3.4
1	B	393	LYS	3.1
1	A	414	MET	2.5
1	B	455	ALA	2.5
1	A	775	SER	2.4
1	B	739	GLY	2.2
1	A	391	ALA	2.1
1	A	739	GLY	2.1
1	B	456	ASP	2.1

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

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(Å ²)	Q<0.9
5	ACT	A	805	4/4	0.64	0.28	48,52,57,69	0
6	GOL	A	807	6/6	0.65	0.19	55,67,76,82	0
6	GOL	A	806	6/6	0.66	0.19	53,56,57,59	0
6	GOL	A	808	6/6	0.68	0.28	69,79,88,89	0
5	ACT	B	808	4/4	0.81	0.23	61,70,70,75	0
7	PEG	A	810	7/7	0.81	0.16	39,59,62,64	0
7	PEG	A	809	7/7	0.84	0.14	40,49,59,63	0
5	ACT	B	806	4/4	0.85	0.15	26,42,46,51	0
5	ACT	B	807	4/4	0.87	0.13	47,48,51,52	0
3	SO4	B	803	5/5	0.90	0.11	29,36,47,54	5
3	SO4	B	802	5/5	0.91	0.10	41,43,48,50	0
3	SO4	B	804	5/5	0.94	0.11	12,34,42,46	5
3	SO4	A	803	5/5	0.95	0.09	11,32,34,38	5
4	GLU	B	805	10/10	0.97	0.05	12,14,16,16	0
3	SO4	A	802	5/5	0.98	0.07	20,22,24,25	0
4	GLU	A	804	10/10	0.98	0.04	9,11,12,12	0
2	3C2	A	801	14/14	0.99	0.05	9,12,17,18	0
2	3C2	B	801	14/14	0.99	0.04	10,12,15,16	0

6.5 Other polymers

There are no such residues in this entry.