



Full wwPDB X-ray Structure Validation Report ⓘ

May 15, 2020 – 04:22 am BST

PDB ID : 4PQP
Title : Crystal structure of human SNX14 PX domain in space group P43212
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Deposited on : 2014-03-03
Resolution : 3.00 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

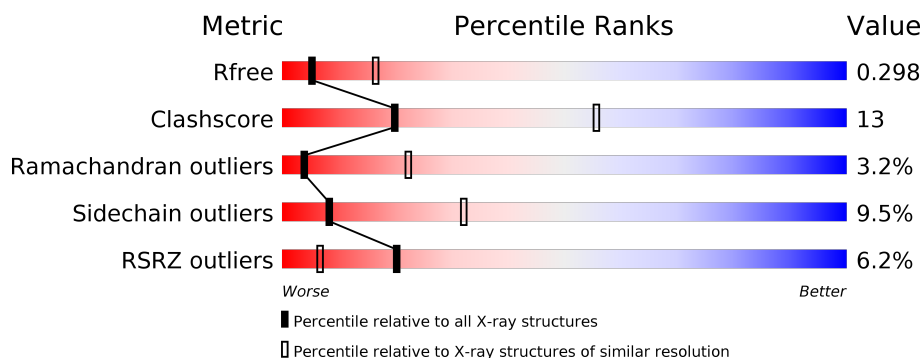
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 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}	130704	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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 on 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	128	
1	B	128	
1	C	128	
1	D	128	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3475 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 Sorting nexin-14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	102	Total	C	N	O	S	0	1	0
			874	580	137	156	1			
1	B	103	Total	C	N	O	S	0	0	0
			875	579	141	154	1			
1	C	102	Total	C	N	O	S	0	0	0
			865	572	137	155	1			
1	D	97	Total	C	N	O	S	0	0	0
			830	548	130	151	1			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	559	GLY	-	EXPRESSION TAG	UNP Q9Y5W7
A	560	SER	-	EXPRESSION TAG	UNP Q9Y5W7
B	559	GLY	-	EXPRESSION TAG	UNP Q9Y5W7
B	560	SER	-	EXPRESSION TAG	UNP Q9Y5W7
C	559	GLY	-	EXPRESSION TAG	UNP Q9Y5W7
C	560	SER	-	EXPRESSION TAG	UNP Q9Y5W7
D	559	GLY	-	EXPRESSION TAG	UNP Q9Y5W7
D	560	SER	-	EXPRESSION TAG	UNP Q9Y5W7

- Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

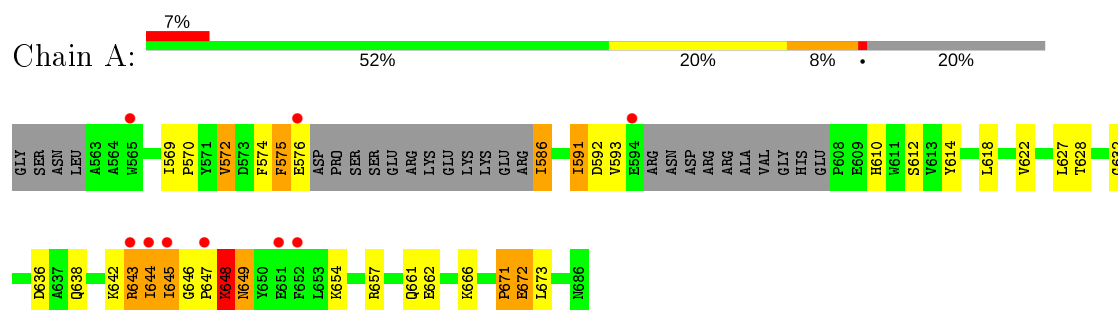
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	4	Total	O	0	0
			4	4		
3	B	6	Total	O	0	0
			6	6		
3	C	6	Total	O	0	0
			6	6		
3	D	3	Total	O	0	0
			3	3		

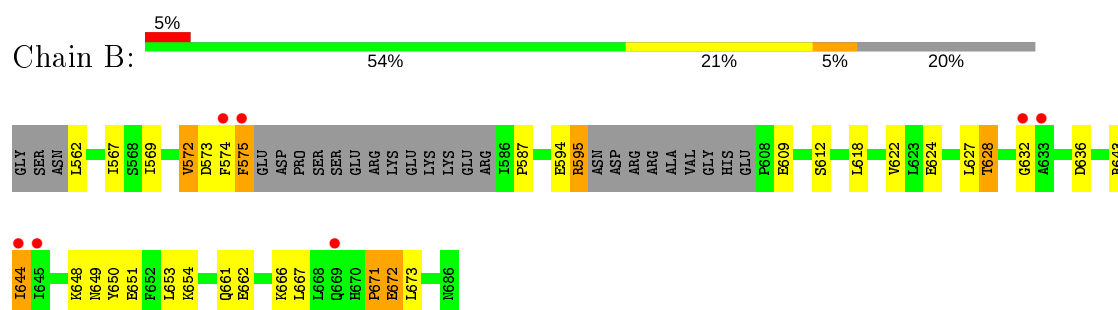
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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.

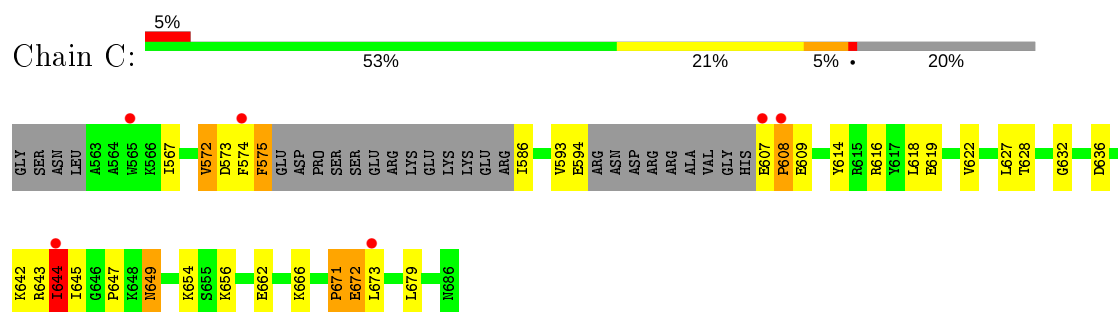
• Molecule 1: Sorting nexin-14



• Molecule 1: Sorting nexin-14

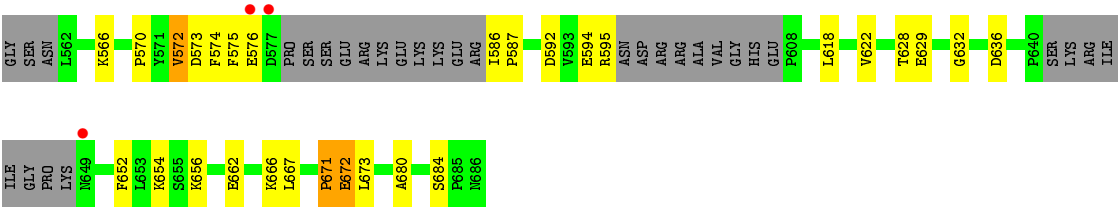


• Molecule 1: Sorting nexin-14



• Molecule 1: Sorting nexin-14





4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	121.67Å 121.67Å 82.43Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.95 – 3.00 68.24 – 3.00	Depositor EDS
% Data completeness (in resolution range)	100.0 (48.95-3.00) 100.0 (68.24-3.00)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.76 (at 3.01Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.1_1168)	Depositor
R, R_{free}	0.234 , 0.286 0.242 , 0.298	Depositor DCC
R_{free} test set	629 reflections (4.88%)	wwPDB-VP
Wilson B-factor (Å ²)	79.3	Xtriage
Anisotropy	0.006	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 75.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	3475	wwPDB-VP
Average B, all atoms (Å ²)	92.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 11.61% 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: GOL

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	0/905	0.75	3/1224 (0.2%)
1	B	0.53	0/902	0.70	1/1219 (0.1%)
1	C	0.54	0/892	0.69	1/1207 (0.1%)
1	D	0.52	0/855	0.62	0/1156
All	All	0.54	0/3554	0.69	5/4806 (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	648	LYS	C-N-CA	-7.86	102.06	121.70
1	B	644	ILE	CB-CA-C	-6.64	98.32	111.60
1	C	644	ILE	CB-CA-C	-6.62	98.37	111.60
1	A	586	ILE	N-CA-C	-6.29	94.02	111.00
1	A	649	ASN	N-CA-C	5.28	125.25	111.00

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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	874	0	848	37	1
1	B	875	0	857	16	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	865	0	838	27	1
1	D	830	0	790	19	1
2	A	6	0	8	2	0
2	C	6	0	8	0	0
3	A	4	0	0	0	0
3	B	6	0	0	0	0
3	C	6	0	0	1	0
3	D	3	0	0	0	0
All	All	3475	0	3349	86	2

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 13.

All (86) 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:644:ILE:HG12	1:C:644:ILE:HD11	1.43	0.99
1:A:643:ARG:HH12	1:D:652:PHE:HD1	1.13	0.96
1:A:671:PRO:O	1:A:673:LEU:N	2.05	0.90
1:A:643:ARG:HG3	1:A:645:ILE:H	1.36	0.90
1:B:671:PRO:O	1:B:673:LEU:N	2.05	0.90
1:C:671:PRO:O	1:C:673:LEU:N	2.06	0.88
1:D:671:PRO:O	1:D:673:LEU:N	2.04	0.88
1:A:575:PHE:CD1	1:A:575:PHE:O	2.30	0.84
1:A:638:GLN:OE1	1:B:650:TYR:OH	1.99	0.81
1:C:567:ILE:HG22	1:C:593:VAL:HG13	1.70	0.72
1:C:586:ILE:N	3:C:801:HOH:O	2.25	0.69
1:B:587:PRO:HB2	1:B:653:LEU:HD22	1.78	0.66
1:B:662:GLU:HG3	1:B:666:LYS:HE2	1.77	0.65
1:C:662:GLU:HG3	1:C:666:LYS:HE2	1.79	0.65
2:A:701:GOL:H12	1:B:651:GLU:HG3	1.78	0.64
1:A:662:GLU:HG3	1:A:666:LYS:HE2	1.81	0.63
1:A:645:ILE:HG12	1:A:646:GLY:N	2.14	0.62
1:D:662:GLU:HG3	1:D:666:LYS:HE2	1.81	0.61
1:A:644:ILE:HG23	1:C:644:ILE:HG12	1.82	0.60
1:A:575:PHE:O	1:A:576:GLU:C	2.39	0.60
1:A:644:ILE:CG1	1:C:644:ILE:HD11	2.28	0.60
1:A:644:ILE:HG23	1:C:644:ILE:CG1	2.32	0.58
2:A:701:GOL:H11	1:C:645:ILE:HG23	1.87	0.57
1:A:645:ILE:HG12	1:A:646:GLY:O	2.04	0.56
1:A:644:ILE:HG21	1:C:642:LYS:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:643:ARG:HG3	1:A:645:ILE:N	2.15	0.54
1:D:576:GLU:HA	1:D:586:ILE:N	2.23	0.53
1:C:607:GLU:N	1:C:608:PRO:HD3	2.23	0.53
1:B:572:VAL:HG11	1:B:654:LYS:HA	1.90	0.52
1:B:618:LEU:HD12	1:B:618:LEU:H	1.75	0.52
1:A:618:LEU:H	1:A:618:LEU:HD12	1.75	0.51
1:D:572:VAL:HG11	1:D:654:LYS:HA	1.92	0.51
1:A:643:ARG:NH2	1:D:652:PHE:HB2	2.26	0.50
1:B:624:GLU:O	1:B:628:THR:OG1	2.21	0.50
1:C:572:VAL:HG11	1:C:654:LYS:HA	1.93	0.50
1:D:573:ASP:OD1	1:D:574:PHE:N	2.39	0.50
1:A:572:VAL:HG11	1:A:654:LYS:HA	1.94	0.49
1:D:570:PRO:HG3	1:D:592:ASP:OD2	2.13	0.49
1:A:570:PRO:HG3	1:A:592:ASP:OD1	2.13	0.49
1:C:618:LEU:H	1:C:618:LEU:HD12	1.78	0.48
1:D:566:LYS:O	1:D:594:GLU:N	2.43	0.48
1:A:647:PRO:HA	1:A:648:LYS:HA	1.60	0.47
1:A:628:THR:HA	1:A:632:GLY:O	2.14	0.47
1:A:643:ARG:HH22	1:D:652:PHE:HB2	1.79	0.47
1:A:575:PHE:CD1	1:A:575:PHE:C	2.89	0.46
1:A:643:ARG:HG2	1:A:645:ILE:HB	1.96	0.46
1:D:575:PHE:CG	1:D:575:PHE:O	2.69	0.46
1:A:569:ILE:HG13	1:A:661:GLN:HG3	1.97	0.46
1:A:643:ARG:CG	1:A:645:ILE:HB	2.46	0.46
1:A:642:LYS:HZ3	1:C:644:ILE:HB	1.81	0.46
1:B:628:THR:HA	1:B:632:GLY:O	2.16	0.46
1:D:618:LEU:H	1:D:618:LEU:HD12	1.80	0.45
1:A:591:ILE:O	1:A:612:SER:HA	2.17	0.45
1:B:595:ARG:HB2	1:B:609:GLU:H	1.82	0.44
1:A:642:LYS:HE2	1:C:644:ILE:HG21	1.98	0.44
1:D:573:ASP:O	1:D:587:PRO:HA	2.17	0.44
1:C:656:LYS:HD3	1:C:656:LYS:HA	1.81	0.44
1:D:667:LEU:HD12	1:D:667:LEU:HA	1.86	0.44
1:C:575:PHE:O	1:C:575:PHE:CG	2.71	0.44
1:B:569:ILE:HG13	1:B:661:GLN:HG3	1.98	0.43
1:D:628:THR:HA	1:D:632:GLY:O	2.18	0.43
1:B:595:ARG:N	1:B:609:GLU:O	2.33	0.43
1:A:644:ILE:HG12	1:C:644:ILE:CD1	2.30	0.43
1:B:573:ASP:OD1	1:B:574:PHE:N	2.44	0.43
1:C:573:ASP:OD1	1:C:574:PHE:N	2.42	0.43
1:C:628:THR:HA	1:C:632:GLY:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:627:LEU:HA	1:A:627:LEU:HD23	1.87	0.43
1:B:627:LEU:HD23	1:B:627:LEU:HA	1.84	0.43
1:C:679:LEU:HD12	1:C:679:LEU:HA	1.82	0.42
1:A:574:PHE:HD1	1:A:586:ILE:N	2.16	0.42
1:B:667:LEU:HD12	1:B:667:LEU:HA	1.89	0.42
1:D:575:PHE:O	1:D:586:ILE:HB	2.20	0.42
1:B:575:PHE:CG	1:B:575:PHE:O	2.74	0.41
1:A:572:VAL:HG13	1:A:654:LYS:HG2	2.03	0.41
1:C:647:PRO:HB2	1:C:649:ASN:HB3	2.02	0.41
1:A:643:ARG:NH1	1:D:652:PHE:HD1	1.97	0.41
1:A:569:ILE:O	1:A:657:ARG:HD2	2.21	0.41
1:C:614:TYR:N	1:C:614:TYR:CD2	2.88	0.41
1:D:680:ALA:O	1:D:684:SER:OG	2.39	0.41
1:C:644:ILE:HB	1:C:645:ILE:H	1.62	0.41
1:D:656:LYS:HD3	1:D:656:LYS:HA	1.85	0.40
1:A:593:VAL:O	1:A:610:HIS:HA	2.20	0.40
1:C:616:ARG:HB2	1:C:619:GLU:HG3	2.03	0.40
1:C:647:PRO:C	1:C:649:ASN:H	2.25	0.40
1:C:627:LEU:HA	1:C:627:LEU:HD23	1.85	0.40

All (2) 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)
1:A:576:GLU:OE2	1:D:629:GLU:O[8_667]	2.05	0.15
1:B:612:SER:OG	1:C:609:GLU:OE1[5_756]	2.09	0.11

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	97/128 (76%)	89 (92%)	5 (5%)	3 (3%)	4 23

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	97/128 (76%)	88 (91%)	6 (6%)	3 (3%)	4	23
1	C	96/128 (75%)	85 (88%)	7 (7%)	4 (4%)	3	16
1	D	89/128 (70%)	82 (92%)	5 (6%)	2 (2%)	6	31
All	All	379/512 (74%)	344 (91%)	23 (6%)	12 (3%)	4	22

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	672	GLU
1	B	671	PRO
1	B	672	GLU
1	C	649	ASN
1	C	672	GLU
1	D	672	GLU
1	A	671	PRO
1	B	649	ASN
1	C	671	PRO
1	D	671	PRO
1	C	608	PRO
1	A	644	ILE

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	96/118 (81%)	86 (90%)	10 (10%)	7	27
1	B	96/118 (81%)	83 (86%)	13 (14%)	4	17
1	C	95/118 (80%)	87 (92%)	8 (8%)	11	38
1	D	91/118 (77%)	86 (94%)	5 (6%)	21	57
All	All	378/472 (80%)	342 (90%)	36 (10%)	8	32

All (36) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	572	VAL
1	A	575	PHE
1	A	591	ILE
1	A	622	VAL
1	A	636	ASP
1	A	643	ARG
1	A	645	ILE
1	A	648	LYS
1	A	649	ASN
1	A	672	GLU
1	B	562	LEU
1	B	567	ILE
1	B	572	VAL
1	B	575	PHE
1	B	594	GLU
1	B	595	ARG
1	B	622	VAL
1	B	628	THR
1	B	636	ASP
1	B	643	ARG
1	B	644	ILE
1	B	648	LYS
1	B	672	GLU
1	C	572	VAL
1	C	575	PHE
1	C	594	GLU
1	C	622	VAL
1	C	636	ASP
1	C	643	ARG
1	C	644	ILE
1	C	672	GLU
1	D	572	VAL
1	D	595	ARG
1	D	622	VAL
1	D	636	ASP
1	D	672	GLU

Some 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 [i](#)

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

2 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	GOL	C	701	-	5,5,5	0.36	0	5,5,5	1.26	1 (20%)
2	GOL	A	701	-	5,5,5	0.35	0	5,5,5	0.53	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
2	GOL	C	701	-	-	4/4/4/4	-
2	GOL	A	701	-	-	2/4/4/4	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	701	GOL	C3-C2-C1	-2.37	102.48	111.70

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	C	701	GOL	O1-C1-C2-C3
2	C	701	GOL	C1-C2-C3-O3
2	A	701	GOL	C1-C2-C3-O3
2	C	701	GOL	O1-C1-C2-O2
2	C	701	GOL	O2-C2-C3-O3
2	A	701	GOL	O2-C2-C3-O3

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	701	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

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	102/128 (79%)	0.51	9 (8%) 10 3	51, 86, 140, 198	0
1	B	103/128 (80%)	0.33	7 (6%) 17 5	55, 86, 123, 154	0
1	C	102/128 (79%)	0.45	6 (5%) 22 7	58, 87, 130, 152	0
1	D	97/128 (75%)	0.31	3 (3%) 49 21	66, 97, 127, 174	0
All	All	404/512 (78%)	0.40	25 (6%) 20 7	51, 90, 131, 198	0

All (25) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	643	ARG	5.2
1	A	644	ILE	3.5
1	A	576	GLU	3.3
1	C	673	LEU	3.3
1	C	644	ILE	3.3
1	A	651	GLU	3.0
1	C	565	TRP	2.8
1	D	576	GLU	2.8
1	D	649	ASN	2.8
1	A	594	GLU	2.6
1	B	574	PHE	2.5
1	C	607	GLU	2.5
1	B	669	GLN	2.5
1	A	647	PRO	2.5
1	B	645	ILE	2.4
1	B	575	PHE	2.4
1	B	633	ALA	2.3
1	B	644	ILE	2.3
1	B	632	GLY	2.2
1	C	574	PHE	2.2
1	A	565	TRP	2.2

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Mol	Chain	Res	Type	RSRZ
1	D	577	ASP	2.2
1	A	645	ILE	2.1
1	A	652	PHE	2.0
1	C	608	PRO	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 carbohydrates 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(\AA^2)	Q<0.9
2	GOL	A	701	6/6	0.82	0.28	82,85,87,88	0
2	GOL	C	701	6/6	0.89	0.22	42,82,90,93	0

6.5 Other polymers [i](#)

There are no such residues in this entry.