



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 29, 2024 – 04:21 pm BST

PDB ID : 7R2T
Title : SYNJ2BP complex with a phosphorylated Vangl2 peptide at the P-1 position.
Authors : Carrasco, K.; Cousido Siah, A.; Gogl, G.; Betzi, S.; McEwen, A.; Kostmann, C.; Trave, G.
Deposited on : 2022-02-05
Resolution : 2.50 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 : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 3.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.002 (Gargrove)
Density-Fitness : 1.0.11
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.38.2

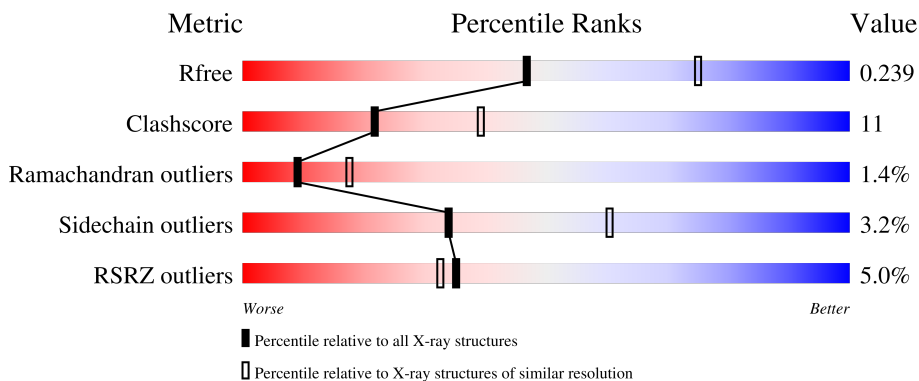
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION


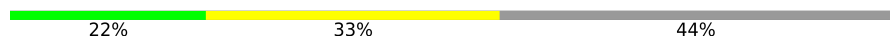
The reported resolution of this entry is 2.50 Å.

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}	164625	5504 (2.50-2.50)
Clashscore	180529	6282 (2.50-2.50)
Ramachandran outliers	177936	6191 (2.50-2.50)
Sidechain outliers	177891	6193 (2.50-2.50)
RSRZ outliers	164620	5504 (2.50-2.50)

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	422	 5% 78% 18% ..
2	B	9	 22% 33% 44%

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
3	CA	A	506	-	-	-	X

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 3332 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 Synaptojanin-2-binding protein,Annexin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	416	3252	2026	566	649	11	0	1	0

There are 11 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLN	-	expression tag	UNP P57105
A	2	GLY	-	expression tag	UNP P57105
A	3	SER	-	expression tag	UNP P57105
A	4	HIS	-	expression tag	UNP P57105
A	5	MET	-	expression tag	UNP P57105
A	104	GLY	-	linker	UNP P57105
A	243	ILE	VAL	conflict	UNP A0A4W2GEM6
A	306	PRO	CYS	conflict	UNP A0A4W2GEM6
A	313	ASP	GLU	conflict	UNP A0A4W2GEM6
A	328	ARG	LYS	conflict	UNP A0A4W2GEM6
A	392	ARG	LYS	conflict	UNP A0A4W2GEM6

- Molecule 2 is a protein called Vangle2 peptide binding motif with the P-1 phosphrylated.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	B	5	40	20	5	14	1	0	0	0

- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	5	Total	Ca	0	0
			5	5		

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

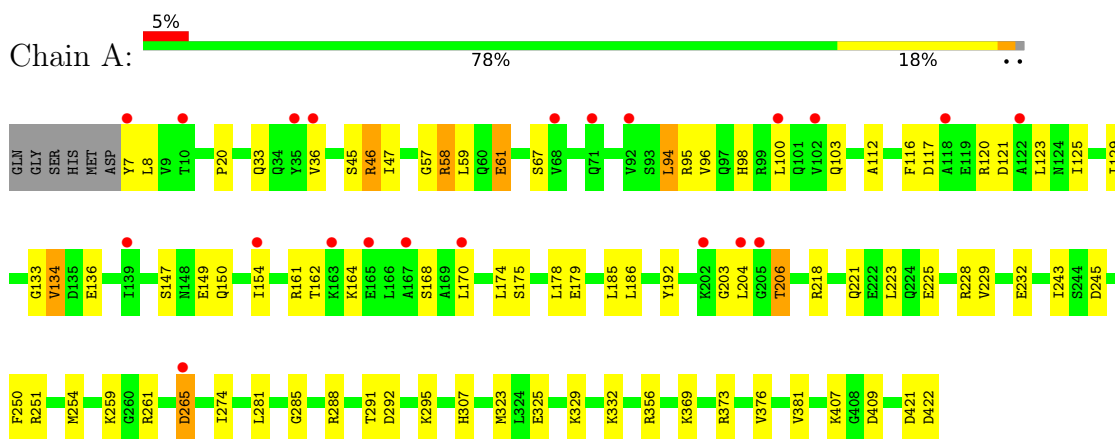
- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	23	Total O 23 23	0	0

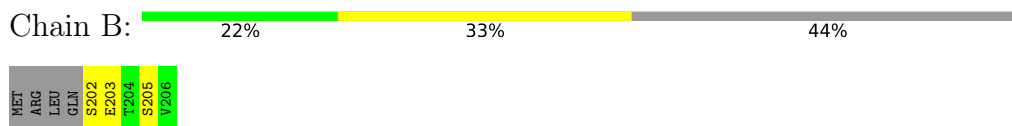
3 Residue-property plots [i](#)

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: Synaptojanin-2-binding protein,Annexin



- Molecule 2: Vangle2 peptide binding motif with the P-1 phosphorylated



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	60.10Å 61.38Å 145.31Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.89 – 2.50 46.89 – 2.50	Depositor EDS
% Data completeness (in resolution range)	98.9 (46.89-2.50) 98.9 (46.89-2.50)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.73 (at 2.51Å)	Xtrriage
Refinement program	PHENIX 1.13_2998	Depositor
R, R_{free}	0.217 , 0.239 0.217 , 0.239	Depositor DCC
R_{free} test set	1167 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	62.9	Xtrriage
Anisotropy	0.102	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 54.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtrriage
Estimated twinning fraction	0.046 for k,h,-l	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3332	wwPDB-VP
Average B, all atoms (Å ²)	78.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.43% 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: GOL, SEP, CA

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	0.45	0/3294	0.58	0/4441
2	B	0.36	0/28	0.53	0/34
All	All	0.45	0/3322	0.58	0/4475

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	3252	0	3176	69	1
2	B	40	0	30	2	0
3	A	5	0	0	0	0
4	A	12	0	16	1	0
5	A	23	0	0	2	0
All	All	3332	0	3222	69	1

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 11.

All (69) 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:243:ILE:HA	1:A:251:ARG:NH1	1.23	1.46
1:A:243:ILE:CA	1:A:251:ARG:HH12	1.33	1.40
1:A:243:ILE:CA	1:A:251:ARG:NH1	1.88	1.35
1:A:243:ILE:C	1:A:251:ARG:HH12	1.52	1.11
1:A:243:ILE:HG23	1:A:251:ARG:NH1	1.83	0.93
1:A:243:ILE:HA	1:A:251:ARG:HH11	1.10	0.90
1:A:243:ILE:CG2	1:A:251:ARG:NH1	2.38	0.86
1:A:243:ILE:CB	1:A:251:ARG:NH1	2.40	0.84
1:A:243:ILE:HG23	1:A:251:ARG:CZ	2.09	0.83
1:A:288:ARG:NH1	1:A:292:ASP:HB2	1.98	0.77
1:A:67:SER:OG	5:A:601:HOH:O	2.02	0.77
1:A:206:THR:HG21	1:A:245:ASP:HB3	1.72	0.70
1:A:47:ILE:HG13	1:A:61:GLU:HG2	1.74	0.70
1:A:243:ILE:O	1:A:251:ARG:NH1	2.24	0.69
1:A:150:GLN:O	1:A:154:ILE:HD13	1.95	0.66
1:A:94:LEU:HD13	1:A:96:VAL:HG13	1.79	0.64
1:A:170:LEU:HD12	1:A:186:LEU:HD11	1.79	0.64
1:A:57:GLY:O	1:A:59:LEU:N	2.31	0.64
1:A:103:GLN:OE1	1:A:103:GLN:N	2.30	0.63
1:A:261:ARG:HH21	1:A:261:ARG:HG3	1.64	0.62
1:A:243:ILE:O	1:A:251:ARG:NH2	2.34	0.59
1:A:33:GLN:OE1	2:B:202:SER:HA	2.04	0.58
1:A:46:ARG:HH12	2:B:203:GLU:HG2	1.70	0.56
1:A:243:ILE:CB	1:A:251:ARG:HH12	2.05	0.55
1:A:288:ARG:HH12	1:A:292:ASP:HB2	1.70	0.54
1:A:218:ARG:HB3	1:A:223:LEU:HG	1.89	0.53
1:A:288:ARG:HH11	1:A:292:ASP:HB2	1.74	0.53
1:A:123:LEU:HD13	1:A:161:ARG:NH1	2.25	0.52
1:A:45:SER:OG	1:A:46:ARG:NH1	2.44	0.51
1:A:261:ARG:HG3	1:A:261:ARG:NH2	2.26	0.51
1:A:281:LEU:HD13	1:A:323:MET:HE3	1.93	0.50
1:A:274:ILE:HG13	1:A:307:HIS:CE1	2.46	0.50
1:A:123:LEU:HD13	1:A:161:ARG:HH11	1.76	0.50
1:A:381:VAL:HG21	4:A:504:GOL:H11	1.93	0.50
1:A:243:ILE:O	1:A:251:ARG:CZ	2.60	0.50
1:A:225:GLU:OE1	1:A:228:ARG:NH1	2.45	0.49
1:A:243:ILE:CG2	1:A:251:ARG:HH12	2.13	0.48
1:A:325:GLU:O	1:A:329:LYS:HG3	2.13	0.48
1:A:250:PHE:O	1:A:254:MET:HG2	2.14	0.48
1:A:265[B]:ASP:N	1:A:265[B]:ASP:OD1	2.46	0.47
1:A:259:LYS:O	1:A:261:ARG:HG2	2.14	0.47
1:A:149:GLU:OE1	1:A:149:GLU:N	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:178:LEU:HD22	1:A:409:ASP:HB2	1.97	0.46
1:A:162:THR:OG1	1:A:164:LYS:O	2.33	0.46
1:A:8:LEU:N	1:A:100:LEU:O	2.43	0.46
1:A:121:ASP:O	1:A:125:ILE:HG13	2.17	0.45
1:A:125:ILE:O	1:A:129:ILE:HD12	2.18	0.44
1:A:421:ASP:OD1	1:A:422:ASP:N	2.49	0.44
1:A:203:GLY:O	1:A:204:LEU:HB3	2.17	0.44
1:A:285:GLY:HA2	1:A:291:THR:HG23	2.01	0.43
1:A:133:GLY:O	1:A:134:VAL:HG22	2.18	0.43
1:A:170:LEU:HB3	1:A:174:LEU:HD12	2.00	0.43
1:A:251:ARG:NH1	1:A:251:ARG:HG3	2.34	0.43
1:A:229:VAL:HA	1:A:232:GLU:HG3	2.01	0.42
1:A:185:LEU:HD23	1:A:376:VAL:HG13	2.00	0.42
1:A:36:VAL:HG23	1:A:117:ASP:CG	2.40	0.42
1:A:58:ARG:O	1:A:98:HIS:HE1	2.02	0.42
1:A:281:LEU:HD13	1:A:323:MET:CE	2.51	0.41
1:A:329:LYS:HE3	1:A:329:LYS:HB3	1.78	0.41
1:A:369:LYS:HD2	1:A:369:LYS:HA	1.85	0.41
1:A:103:GLN:HG2	1:A:112:ALA:H	1.86	0.41
1:A:356:ARG:HE	1:A:356:ARG:HB3	1.70	0.41
1:A:192:TYR:OH	1:A:373:ARG:HA	2.21	0.40
1:A:373:ARG:HH11	1:A:373:ARG:HD3	1.77	0.40
1:A:116:PHE:HA	5:A:605:HOH:O	2.21	0.40
1:A:369:LYS:HA	1:A:369:LYS:HE3	2.02	0.40
1:A:162:THR:C	1:A:164:LYS:H	2.24	0.40
1:A:175:SER:HA	1:A:179:GLU:OE1	2.22	0.40
1:A:136:GLU:H	1:A:136:GLU:CD	2.25	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	Interatomic distance (Å)	Clash overlap (Å)
1:A:174:LEU:O	1:A:261:ARG:NH1[3_544]	2.18	0.02

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	415/422 (98%)	392 (94%)	16 (4%)	7 (2%)	7	14
2	B	2/9 (22%)	2 (100%)	0	0	100	100
All	All	417/431 (97%)	394 (94%)	16 (4%)	7 (2%)	9	14

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	58	ARG
1	A	134	VAL
1	A	61	GLU
1	A	206	THR
1	A	265[A]	ASP
1	A	265[B]	ASP
1	A	20	PRO

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	343/364 (94%)	332 (97%)	11 (3%)	34	60
2	B	4/8 (50%)	4 (100%)	0	100	100
All	All	347/372 (93%)	336 (97%)	11 (3%)	34	60

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	TYR
1	A	46	ARG
1	A	94	LEU
1	A	95	ARG
1	A	120	ARG

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Mol	Chain	Res	Type
1	A	147	SER
1	A	168	SER
1	A	221	GLN
1	A	295	LYS
1	A	332	LYS
1	A	407	LYS

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

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue is 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	SEP	B	205	2	8,9,10	1.64	1 (12%)	8,12,14	1.93	1 (12%)

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	SEP	B	205	2	-	0/5/8/10	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	205	SEP	P-O1P	3.50	1.61	1.50

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
2	B	205	SEP	P-OG-CB	-4.83	104.99	118.30

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 7 ligands modelled in this entry, 5 are monoatomic - leaving 2 for Mogul analysis.

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	$\# Z > 2$
4	GOL	A	504	-	5,5,5	1.20	0	5,5,5	0.95	0
4	GOL	A	505	-	5,5,5	0.86	0	5,5,5	0.95	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
4	GOL	A	504	-	-	2/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	GOL	A	505	-	-	4/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	505	GOL	C1-C2-C3-O3
4	A	504	GOL	O1-C1-C2-C3
4	A	505	GOL	O1-C1-C2-C3
4	A	505	GOL	O1-C1-C2-O2
4	A	505	GOL	O2-C2-C3-O3
4	A	504	GOL	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	504	GOL	1	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	416/422 (98%)	0.53	21 (5%) 35 32	39, 78, 114, 134	1 (0%)
2	B	4/9 (44%)	0.58	0 100 100	79, 80, 92, 97	0
All	All	420/431 (97%)	0.53	21 (5%) 35 32	39, 78, 114, 134	1 (0%)

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	204	LEU	5.3
1	A	102	VAL	3.3
1	A	92	VAL	3.1
1	A	170	LEU	3.1
1	A	71	GLN	3.0
1	A	205	GLY	2.7
1	A	122	ALA	2.7
1	A	35	TYR	2.5
1	A	118	ALA	2.4
1	A	100	LEU	2.4
1	A	154	ILE	2.3
1	A	68	VAL	2.3
1	A	163	LYS	2.3
1	A	7	TYR	2.2
1	A	10	THR	2.1
1	A	202	LYS	2.1
1	A	167	ALA	2.1
1	A	165	GLU	2.1
1	A	265[A]	ASP	2.1
1	A	139	ILE	2.1
1	A	36	VAL	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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(Å ²)	Q<0.9
2	SEP	B	205	10/11	0.84	0.10	79,90,101,105	0

6.3 Carbohydrates [i](#)

There are no monosaccharides 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(Å ²)	Q<0.9
3	CA	A	506	1/1	0.35	0.43	198,198,198,198	0
3	CA	A	507	1/1	0.78	0.32	147,147,147,147	0
3	CA	A	501	1/1	0.87	0.08	117,117,117,117	0
4	GOL	A	504	6/6	0.92	0.17	66,67,68,68	0
4	GOL	A	505	6/6	0.96	0.11	62,64,68,75	0
3	CA	A	503	1/1	0.97	0.04	54,54,54,54	0
3	CA	A	502	1/1	0.98	0.04	82,82,82,82	0

6.5 Other polymers [i](#)

There are no such residues in this entry.