



Full wwPDB X-ray Structure Validation Report ⓘ

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PDB ID : 3KRM / pdb_00003krm
Title : Imp1 kh34
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Deposited on : 2009-11-18
Resolution : 2.75 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

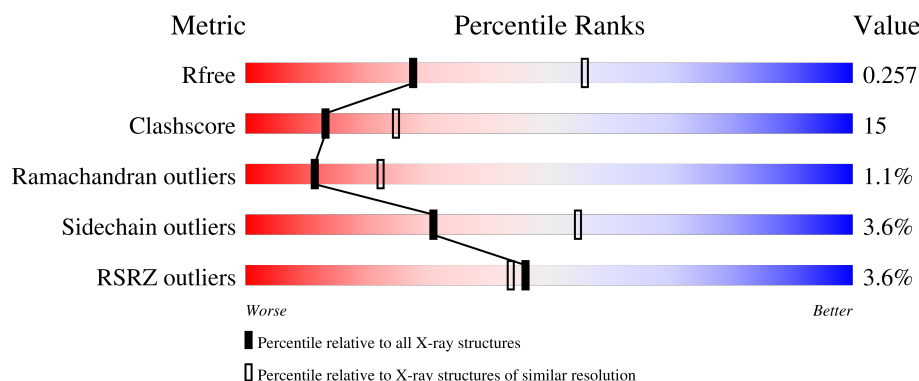
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.75 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	1009 (2.76-2.76)
Clashscore	190562	1044 (2.76-2.76)
Ramachandran outliers	187476	1024 (2.76-2.76)
Sidechain outliers	187428	1024 (2.76-2.76)
RSRZ outliers	180081	1009 (2.76-2.76)

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	163	2% 69% 28% ..
1	B	163	6% 64% 31% ..
1	C	163	2% 59% 33% ..

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 3650 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 Insulin-like growth factor 2 mRNA-binding protein 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	158	Total	C	N	O	S	0	0	0
			1217	772	220	222	3			
1	B	156	Total	C	N	O	S	0	0	0
			1201	761	217	220	3			
1	C	157	Total	C	N	O	S	0	0	0
			1208	766	218	221	3			

- Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



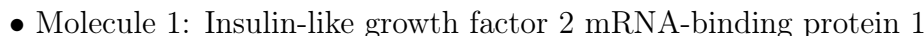
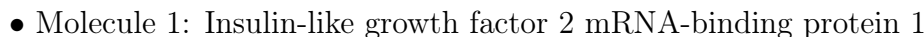
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			6	3	3		
2	A	1	Total	C	O	0	0
			6	3	3		
2	B	1	Total	C	O	0	0
			6	3	3		

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

- Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 65	Depositor
Cell constants a, b, c, α , β , γ	103.53Å 103.53Å 131.60Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	50.00 – 2.75 50.00 – 2.75	Depositor EDS
% Data completeness (in resolution range)	5.1 (50.00-2.75) 99.9 (50.00-2.75)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.68 (at 2.77Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.198 , 0.239 0.217 , 0.257	Depositor DCC
R_{free} test set	1067 reflections (5.13%)	wwPDB-VP
Wilson B-factor (Å ²)	78.9	Xtriage
Anisotropy	0.192	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 78.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.066 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3650	wwPDB-VP
Average B, all atoms (Å ²)	97.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.74% 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

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	0.77	0/1237	1.01	4/1668 (0.2%)
1	B	0.74	0/1219	0.95	1/1642 (0.1%)
1	C	0.71	0/1227	0.95	1/1654 (0.1%)
All	All	0.74	0/3683	0.97	6/4964 (0.1%)

There are no bond length outliers.

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	528	THR	CA-C-N	6.02	126.04	119.90
1	A	528	THR	C-N-CA	6.02	126.04	119.90
1	A	429	LYS	N-CA-C	-5.58	105.28	111.36
1	C	543	PHE	N-CA-C	5.57	117.81	111.02
1	A	433	ARG	N-CA-C	-5.12	105.59	111.07
1	B	432	SER	N-CA-C	-5.03	106.99	113.23

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	1217	0	1264	38	0
1	B	1201	0	1243	40	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	1208	0	1250	41	0
2	A	12	0	16	1	0
2	B	12	0	16	2	0
All	All	3650	0	3789	111	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 15.

All (111) 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:536:ILE:HD11	1:C:447:PRO:HG3	1.67	0.76
1:C:550:GLN:O	1:C:554:ARG:HG2	1.91	0.71
1:A:447:PRO:HG3	1:C:536:ILE:HD11	1.73	0.71
1:A:434:PHE:O	1:A:465:LYS:CE	2.40	0.70
1:C:434:PHE:HE2	1:C:469:ARG:HD3	1.57	0.69
1:A:517:THR:HA	1:A:548:MET:HE2	1.75	0.69
1:A:431:LEU:HD11	1:A:469:ARG:CB	2.23	0.68
1:C:517:THR:HG22	1:C:548:MET:HG2	1.75	0.68
1:A:431:LEU:HD11	1:A:469:ARG:HB2	1.75	0.67
1:C:431:LEU:HD12	1:C:431:LEU:O	1.96	0.66
1:C:505:LYS:O	1:C:508:LYS:HG3	2.00	0.62
1:A:536:ILE:CD1	1:C:447:PRO:HG3	2.29	0.61
1:A:450:LYS:CB	1:B:450:LYS:CB	2.77	0.61
1:C:531:GLU:HG2	1:C:532:ASN:H	1.65	0.60
1:B:513:LEU:HD21	1:B:552:LYS:HB2	1.84	0.59
1:C:552:LYS:O	1:C:555:ASP:HB2	2.02	0.59
1:B:513:LEU:HD21	1:B:552:LYS:CB	2.33	0.58
1:C:543:PHE:O	1:C:547:GLN:HG2	2.05	0.57
1:B:414:ALA:O	1:B:417:VAL:HG23	2.05	0.57
1:A:506:GLY:HA3	1:B:508:LYS:HE3	1.87	0.56
1:C:503:ILE:O	1:C:507:GLY:HA2	2.05	0.56
1:C:525:ARG:O	1:C:526:ASP:CB	2.53	0.56
1:C:414:ALA:O	1:C:417:VAL:HG23	2.04	0.56
1:B:435:ALA:HA	1:B:465:LYS:HE2	1.88	0.55
1:A:435:ALA:HA	1:A:465:LYS:HE2	1.88	0.55
1:A:552:LYS:O	1:A:555:ASP:HB2	2.06	0.55
1:B:517:THR:O	1:B:518:ALA:HB3	2.07	0.55
1:B:421:ILE:O	1:B:427:HIS:HB3	2.07	0.54
1:B:544:TYR:CE1	1:B:548:MET:HE3	2.43	0.54
1:A:493:ARG:HD2	1:A:530:ASP:OD2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:406:GLU:OE2	1:B:460:PRO:HG3	2.07	0.54
1:A:406:GLU:OE2	1:A:460:PRO:HG3	2.09	0.53
1:B:543:PHE:O	1:B:547:GLN:HG2	2.08	0.53
1:C:425:GLY:O	1:C:429:LYS:HG3	2.10	0.52
1:A:531:GLU:HG2	1:A:532:ASN:N	2.24	0.52
1:C:435:ALA:HA	1:C:465:LYS:HE2	1.89	0.52
1:A:414:ALA:O	1:A:417:VAL:HG23	2.10	0.51
1:B:423:LYS:O	1:B:424:LYS:CB	2.58	0.51
1:B:503:ILE:HG22	1:B:507:GLY:HA2	1.91	0.51
1:A:517:THR:HG22	1:A:548:MET:HE2	1.93	0.51
1:B:492:ILE:HD11	1:B:553:ILE:HG21	1.94	0.50
1:B:423:LYS:C	1:B:424:LYS:HG3	2.36	0.50
1:A:540:ILE:HD12	1:A:540:ILE:N	2.26	0.50
1:A:505:LYS:O	1:A:508:LYS:HG3	2.12	0.49
1:A:434:PHE:O	1:A:465:LYS:HE2	2.10	0.49
1:B:423:LYS:O	1:B:424:LYS:HB2	2.12	0.49
1:B:554:ARG:HG3	2:B:1:GOL:H11	1.94	0.49
1:B:553:ILE:O	1:B:557:LEU:HG	2.13	0.49
1:B:434:PHE:HE2	1:B:469:ARG:CG	2.26	0.48
1:B:540:ILE:N	1:B:540:ILE:HD12	2.29	0.48
1:C:540:ILE:HD12	1:C:540:ILE:N	2.29	0.48
1:A:531:GLU:HG2	1:A:532:ASN:OD1	2.14	0.48
1:C:406:GLU:OE2	1:C:460:PRO:HG3	2.14	0.48
1:B:451:VAL:HG21	2:B:3:GOL:H12	1.96	0.48
1:C:517:THR:O	1:C:518:ALA:HB3	2.14	0.47
1:B:513:LEU:CD2	1:B:552:LYS:HB2	2.45	0.47
1:A:432:SER:O	1:A:436:SER:N	2.48	0.47
1:A:447:PRO:HG3	1:C:536:ILE:CD1	2.43	0.47
1:C:446:THR:O	1:C:447:PRO:C	2.56	0.47
1:C:434:PHE:CE2	1:C:469:ARG:HD3	2.45	0.46
1:A:405:GLN:O	1:A:405:GLN:HG3	2.15	0.46
1:B:434:PHE:CE2	1:B:469:ARG:CG	2.98	0.46
1:A:431:LEU:CD1	1:A:469:ARG:CB	2.93	0.46
1:C:531:GLU:HG2	1:C:532:ASN:N	2.31	0.46
1:A:431:LEU:CD1	1:A:469:ARG:HG3	2.45	0.46
1:B:542:HIS:CE1	1:B:544:TYR:HB3	2.51	0.45
1:A:434:PHE:O	1:A:465:LYS:HE3	2.16	0.45
1:C:542:HIS:CE1	1:C:545:ALA:HB2	2.52	0.45
1:A:506:GLY:O	1:B:508:LYS:HG2	2.17	0.44
1:A:517:THR:O	1:A:518:ALA:HB3	2.17	0.44
1:C:529:PRO:O	1:C:530:ASP:O	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:416:ALA:O	1:B:420:ILE:HG12	2.17	0.44
1:A:444:PRO:HG2	1:C:493:ARG:NH2	2.33	0.44
1:C:529:PRO:HB3	1:C:533:ASP:HA	1.99	0.44
1:A:531:GLU:HG2	1:A:532:ASN:CG	2.44	0.43
1:A:543:PHE:O	1:A:547:GLN:HG2	2.18	0.43
1:B:544:TYR:CD2	1:B:544:TYR:C	2.96	0.43
1:B:405:GLN:O	1:B:405:GLN:HG3	2.18	0.43
1:C:421:ILE:CG2	1:C:425:GLY:HA2	2.48	0.43
1:B:421:ILE:C	1:B:427:HIS:HB3	2.43	0.43
1:C:529:PRO:C	1:C:530:ASP:O	2.62	0.43
1:B:501:ARG:HG3	1:B:560:VAL:HG22	2.00	0.43
1:B:408:VAL:HG22	1:B:492:ILE:HG22	2.01	0.43
1:C:489:GLU:OE2	1:C:538:LYS:HE3	2.18	0.43
1:B:489:GLU:OE2	1:B:538:LYS:HE3	2.18	0.43
1:C:501:ARG:HG3	1:C:560:VAL:HG22	2.00	0.43
1:C:529:PRO:CB	1:C:533:ASP:HA	2.48	0.43
1:B:434:PHE:CE2	1:B:469:ARG:HG3	2.53	0.42
1:C:408:VAL:HG22	1:C:492:ILE:HG22	2.01	0.42
1:C:551:ARG:HD3	1:C:551:ARG:HA	1.57	0.42
1:A:487:LYS:HE2	1:A:541:GLY:HA2	2.01	0.42
1:B:487:LYS:HE2	1:B:541:GLY:HA2	2.02	0.42
1:C:434:PHE:HE2	1:C:469:ARG:CD	2.27	0.42
1:A:501:ARG:HG3	1:A:560:VAL:HG22	2.02	0.42
1:B:550:GLN:O	1:B:554:ARG:HG2	2.20	0.42
1:A:408:VAL:HG22	1:A:492:ILE:HG22	2.03	0.41
1:A:416:ALA:O	1:A:420:ILE:HG12	2.20	0.41
1:C:459:PRO:HD2	1:C:462:ALA:HB3	2.02	0.41
1:B:459:PRO:HD2	1:B:462:ALA:HB3	2.02	0.41
1:B:527:GLN:O	1:B:529:PRO:HD3	2.21	0.41
1:C:507:GLY:O	1:C:511:ASN:HB2	2.20	0.41
1:C:421:ILE:HA	1:C:428:ILE:HB	2.01	0.41
1:C:423:LYS:O	1:C:426:GLN:HG3	2.21	0.41
1:C:444:PRO:HG3	1:C:452:ARG:CD	2.50	0.41
1:B:542:HIS:CE1	1:B:545:ALA:H	2.39	0.41
1:B:453:MET:HE2	1:B:453:MET:HB3	1.96	0.41
1:A:451:VAL:HG21	2:A:2:GOL:H12	2.03	0.40
1:B:513:LEU:HD21	1:B:552:LYS:HB3	2.04	0.40
1:A:517:THR:CA	1:A:548:MET:HE2	2.48	0.40
1:A:444:PRO:HG3	1:A:452:ARG:CD	2.51	0.40
1:C:416:ALA:O	1:C:420:ILE:HG12	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	156/163 (96%)	147 (94%)	9 (6%)	0	100	100
1	B	152/163 (93%)	140 (92%)	10 (7%)	2 (1%)	9	18
1	C	153/163 (94%)	135 (88%)	15 (10%)	3 (2%)	6	11
All	All	461/489 (94%)	422 (92%)	34 (7%)	5 (1%)	11	22

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	530	ASP
1	B	530	ASP
1	B	424	LYS
1	C	434	PHE
1	C	526	ASP

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	129/135 (96%)	126 (98%)	3 (2%)	44	66
1	B	127/135 (94%)	124 (98%)	3 (2%)	43	65
1	C	128/135 (95%)	120 (94%)	8 (6%)	16	30
All	All	384/405 (95%)	370 (96%)	14 (4%)	31	55

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	432	SER
1	A	448	ASP
1	A	461	GLU
1	B	423	LYS
1	B	428	ILE
1	B	461	GLU
1	C	431	LEU
1	C	432	SER
1	C	433	ARG
1	C	457	THR
1	C	461	GLU
1	C	527	GLN
1	C	532	ASN
1	C	551	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (14) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	467	GLN
1	A	542	HIS
1	A	562	GLN
1	B	426	GLN
1	B	430	GLN
1	B	467	GLN
1	B	542	HIS
1	B	550	GLN
1	B	562	GLN
1	C	430	GLN
1	C	467	GLN
1	C	532	ASN
1	C	542	HIS
1	C	562	GLN

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](#)

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	GOL	A	2	-	5,5,5	0.39	0	5,5,5	0.48	0
2	GOL	A	4	-	5,5,5	0.53	0	5,5,5	0.42	0
2	GOL	B	3	-	5,5,5	0.48	0	5,5,5	0.22	0
2	GOL	B	1	-	5,5,5	0.35	0	5,5,5	0.27	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	A	2	-	-	1/4/4/4	-
2	GOL	A	4	-	-	2/4/4/4	-
2	GOL	B	3	-	-	2/4/4/4	-
2	GOL	B	1	-	-	3/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	1	GOL	O1-C1-C2-C3
2	A	4	GOL	C1-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
2	B	3	GOL	O1-C1-C2-C3
2	A	4	GOL	O2-C2-C3-O3
2	B	1	GOL	O1-C1-C2-O2
2	B	1	GOL	O2-C2-C3-O3
2	B	3	GOL	O1-C1-C2-O2
2	A	2	GOL	O1-C1-C2-C3

There are no ring outliers.

3 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	2	GOL	1	0
2	B	3	GOL	1	0
2	B	1	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	158/163 (96%)	0.34	3 (1%) 66 64	49, 86, 142, 165	0
1	B	156/163 (95%)	0.47	10 (6%) 25 25	51, 90, 165, 242	0
1	C	157/163 (96%)	0.57	4 (2%) 58 56	57, 97, 156, 188	0
All	All	471/489 (96%)	0.46	17 (3%) 46 44	49, 91, 156, 242	0

All (17) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	435	ALA	3.5
1	A	481	GLY	3.4
1	B	427	HIS	2.9
1	B	561	LYS	2.9
1	B	450	LYS	2.8
1	B	552	LYS	2.5
1	B	428	ILE	2.5
1	A	562	GLN	2.3
1	C	482	PRO	2.3
1	C	507	GLY	2.3
1	B	439	ILE	2.2
1	B	434	PHE	2.2
1	B	421	ILE	2.1
1	A	519	ALA	2.1
1	C	469	ARG	2.1
1	B	426	GLN	2.0
1	C	508	LYS	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
2	GOL	B	3	6/6	0.91	0.14	87,102,128,145	0
2	GOL	A	4	6/6	0.94	0.19	75,97,111,130	0
2	GOL	A	2	6/6	0.95	0.15	89,101,119,124	0
2	GOL	B	1	6/6	0.96	0.14	79,107,129,137	0

6.5 Other polymers [i](#)

There are no such residues in this entry.