



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 14, 2020 – 05:04 am BST

PDB ID : 1Q3X
Title : Crystal structure of the catalytic region of human MASP-2
Authors : Harmat, V.; Gal, P.; Kardos, J.; Szilagyi, K.; Ambrus, G.; Naray-Szabo, G.;
Zavodszky, P.
Deposited on : 2003-08-01
Resolution : 2.23 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

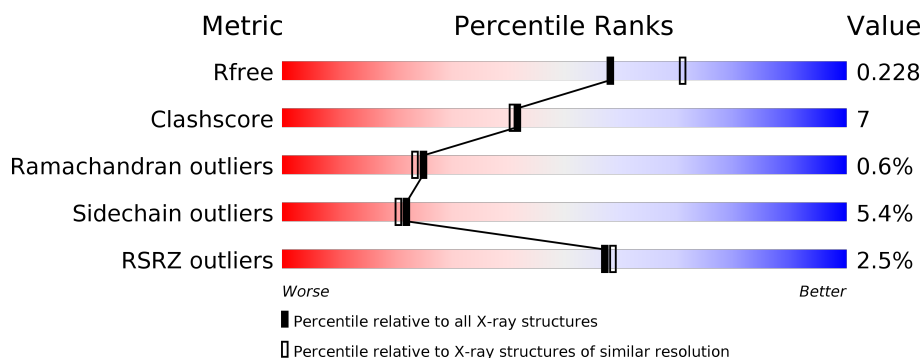
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.23 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	2391 (2.26-2.22)
Clashscore	141614	2539 (2.26-2.22)
Ramachandran outliers	138981	2489 (2.26-2.22)
Sidechain outliers	138945	2490 (2.26-2.22)
RSRZ outliers	127900	2353 (2.26-2.22)

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	328	<div> <div>2%</div> <div> <div></div> <div>81%</div> <div>14%</div> <div>...</div> </div> </div>
1	B	328	<div> <div>3%</div> <div> <div></div> <div>78%</div> <div>16%</div> <div>...</div> </div> </div>

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 5232 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 Mannan-binding lectin serine protease 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	321	Total	C	N	O	S	0	2	0
			2453	1556	407	474	16			
1	B	315	Total	C	N	O	S	0	1	0
			2373	1501	396	460	16			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	359	ALA	-	CLONING ARTIFACT	UNP O00187
A	360	SER	-	CLONING ARTIFACT	UNP O00187
A	361	MET	-	CLONING ARTIFACT	UNP O00187
A	362	THR	-	CLONING ARTIFACT	UNP O00187
B	359	ALA	-	CLONING ARTIFACT	UNP O00187
B	360	SER	-	CLONING ARTIFACT	UNP O00187
B	361	MET	-	CLONING ARTIFACT	UNP O00187
B	362	THR	-	CLONING ARTIFACT	UNP O00187

- Molecule 2 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Na	0	0
			1	1		
2	A	1	Total	Na	0	0
			1	1		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

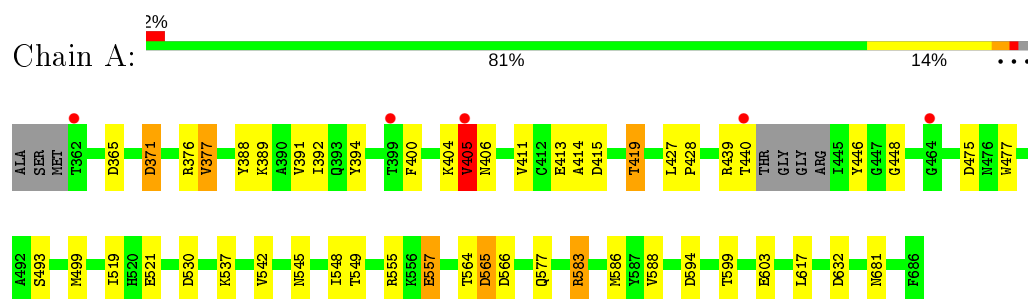
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	181	Total	O	0	0
			181	181		
4	B	181	Total	O	0	0
			181	181		

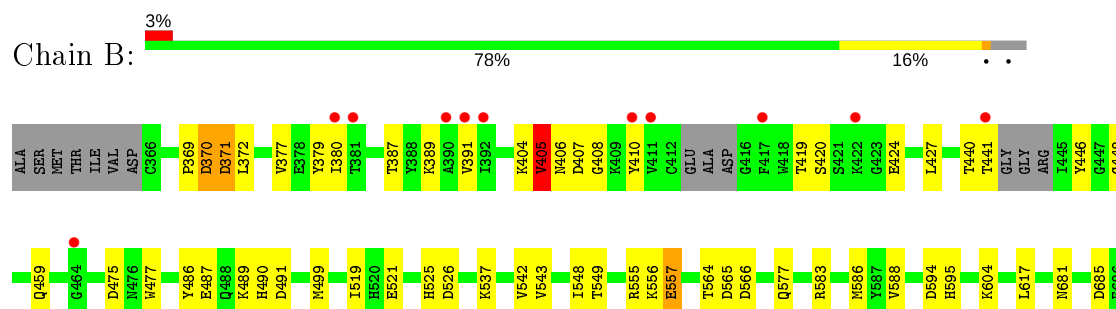
3 Residue-property plots [i](#)

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: Mannan-binding lectin serine protease 2



- Molecule 1: Mannan-binding lectin serine protease 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	40.95Å 41.52Å 102.99Å 96.44° 91.77° 119.52°	Depositor
Resolution (Å)	50.64 – 2.23 35.74 – 2.23	Depositor EDS
% Data completeness (in resolution range)	94.8 (50.64-2.23) 94.9 (35.74-2.23)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.75 (at 2.22Å)	Xtriage
Refinement program	REFMAC 5.1.24	Depositor
R, R_{free}	0.174 , 0.224 0.179 , 0.228	Depositor DCC
R_{free} test set	1356 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	19.9	Xtriage
Anisotropy	0.144	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 39.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.128 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	5232	wwPDB-VP
Average B, all atoms (Å ²)	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.10% 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, NA

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	0.32	0/2526	0.68	10/3438 (0.3%)
1	B	0.31	0/2437	0.66	6/3316 (0.2%)
All	All	0.31	0/4963	0.67	16/6754 (0.2%)

There are no bond length outliers.

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	632	ASP	CB-CG-OD2	5.93	123.63	118.30
1	B	566	ASP	CB-CG-OD2	5.86	123.58	118.30
1	A	565	ASP	CB-CG-OD2	5.77	123.49	118.30
1	A	566	ASP	CB-CG-OD2	5.58	123.33	118.30
1	A	371	ASP	CB-CG-OD2	5.52	123.27	118.30
1	B	475	ASP	CB-CG-OD2	5.51	123.26	118.30
1	B	685	ASP	CB-CG-OD2	5.45	123.20	118.30
1	A	365	ASP	CB-CG-OD2	5.42	123.18	118.30
1	A	475	ASP	CB-CG-OD2	5.41	123.17	118.30
1	A	491[A]	ASP	CB-CG-OD2	5.30	123.07	118.30
1	A	491[B]	ASP	CB-CG-OD2	5.30	123.07	118.30
1	B	370	ASP	CB-CG-OD2	5.27	123.04	118.30
1	A	530	ASP	CB-CG-OD2	5.24	123.01	118.30
1	A	594	ASP	CB-CG-OD2	5.24	123.01	118.30
1	B	594	ASP	CB-CG-OD2	5.08	122.87	118.30
1	B	371	ASP	CB-CG-OD2	5.01	122.81	118.30

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	2453	0	2319	33	0
1	B	2373	0	2225	33	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	24	0	32	0	0
3	B	18	0	24	0	0
4	A	181	0	0	7	0
4	B	181	0	0	7	0
All	All	5232	0	4600	66	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 7.

All (66) 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:586:MET:HE3	4:B:1029:HOH:O	1.76	0.85
1:B:446:TYR:CZ	1:B:577:GLN:HG3	2.20	0.77
1:A:446:TYR:CZ	1:A:577:GLN:HG3	2.20	0.77
1:A:440:THR:HA	4:A:978:HOH:O	1.86	0.76
1:B:370:ASP:HB2	1:B:427:LEU:HD21	1.76	0.68
1:A:586:MET:HE3	4:A:903:HOH:O	1.94	0.68
1:B:556:LYS:HG3	1:B:557:GLU:HG3	1.78	0.65
1:A:388:TYR:O	1:A:389:LYS:HB2	1.99	0.62
1:A:371:ASP:HA	4:A:916:HOH:O	1.98	0.62
1:B:448:GLY:HA3	1:B:588:VAL:HG13	1.85	0.59
1:B:448:GLY:CA	1:B:588:VAL:HG13	2.36	0.56
1:B:406:ASN:ND2	1:B:410:TYR:OH	2.38	0.55
1:A:564:THR:O	1:A:565:ASP:HB2	2.07	0.55
1:B:448:GLY:CA	1:B:588:VAL:CG1	2.85	0.54
1:A:448:GLY:HA3	1:A:588:VAL:HG13	1.90	0.54
1:A:448:GLY:HA2	1:A:588:VAL:HG12	1.90	0.54
1:B:448:GLY:HA2	1:B:588:VAL:HG12	1.90	0.54
1:A:446:TYR:OH	1:A:577:GLN:HG3	2.08	0.54
1:B:446:TYR:OH	1:B:577:GLN:HG3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:564:THR:O	1:B:565:ASP:HB2	2.09	0.53
1:A:405:VAL:O	1:A:406:ASN:ND2	2.42	0.52
1:B:405:VAL:O	1:B:405:VAL:HG13	2.09	0.52
1:A:448:GLY:CA	1:A:588:VAL:CG1	2.88	0.52
1:A:448:GLY:CA	1:A:588:VAL:HG13	2.40	0.51
1:A:537:LYS:HE2	4:A:942:HOH:O	2.09	0.51
1:A:406:ASN:HB2	1:A:428:PRO:HB3	1.93	0.51
1:B:369:PRO:HG2	1:B:377:VAL:HG21	1.93	0.51
1:A:400:PHE:CZ	1:A:545:ASN:HA	2.46	0.50
1:B:490:HIS:HD2	4:B:880:HOH:O	1.94	0.49
1:A:413:GLU:HB2	1:A:419:THR:CG2	2.43	0.49
1:B:448:GLY:HA2	1:B:588:VAL:CG1	2.42	0.48
1:A:391:VAL:HG22	1:A:411:VAL:HG12	1.96	0.48
1:B:543[B]:VAL:HG22	4:B:957:HOH:O	2.14	0.48
1:B:486:TYR:CD1	1:B:519:ILE:HD13	2.48	0.48
1:A:586:MET:CE	4:A:903:HOH:O	2.59	0.47
1:A:427:LEU:HD23	1:A:428:PRO:HD2	1.96	0.47
1:A:489:LYS:NZ	4:A:910:HOH:O	2.47	0.47
1:B:406:ASN:OD1	1:B:407:ASP:N	2.40	0.47
1:B:441:THR:HG21	4:B:971:HOH:O	2.14	0.47
1:B:477:TRP:CZ2	1:B:537:LYS:HD2	2.50	0.47
1:A:448:GLY:HA2	1:A:588:VAL:CG1	2.44	0.46
1:A:491[A]:ASP:OD1	1:A:493:SER:HB2	2.15	0.46
1:B:404:LYS:NZ	4:B:970:HOH:O	2.46	0.46
1:B:487:GLU:HB2	4:B:1030:HOH:O	2.15	0.46
1:A:486:TYR:CD1	1:A:519:ILE:HD13	2.50	0.46
1:B:380:ILE:CB	1:B:391:VAL:O	2.64	0.46
1:A:413:GLU:HG3	1:A:414:ALA:H	1.81	0.45
1:B:371:ASP:OD1	1:B:372:LEU:N	2.49	0.45
1:B:521:GLU:H	1:B:521:GLU:CD	2.19	0.44
1:A:521:GLU:H	1:A:521:GLU:CD	2.20	0.44
1:B:408:GLY:O	1:B:410:TYR:HD1	1.99	0.44
1:A:599:THR:O	1:A:603[A]:GLU:HG3	2.18	0.44
1:B:525:HIS:O	1:B:526:ASP:HB2	2.18	0.43
1:B:370:ASP:OD1	1:B:370:ASP:N	2.50	0.43
1:A:477:TRP:CZ2	1:A:537:LYS:HD2	2.54	0.42
1:A:583:ARG:NH2	4:A:886:HOH:O	2.52	0.42
1:A:439:ARG:O	1:A:440:THR:CB	2.67	0.42
1:B:595:HIS:HE1	4:B:991:HOH:O	2.03	0.42
1:A:404:LYS:O	1:A:405:VAL:HG12	2.19	0.42
1:A:555:ARG:HD2	1:A:557:GLU:OE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:377:VAL:HG12	1:A:394:TYR:CE2	2.56	0.41
1:B:542:VAL:HG11	1:B:548:ILE:HG21	2.03	0.41
1:B:555:ARG:CD	1:B:555:ARG:H	2.33	0.41
1:A:542:VAL:HG11	1:A:548:ILE:HG21	2.03	0.41
1:B:420:SER:N	1:B:424:GLU:O	2.46	0.40
1:B:459:GLN:HB2	1:B:459:GLN:HE21	1.71	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	319/328 (97%)	305 (96%)	13 (4%)	1 (0%)	41	44
1	B	310/328 (94%)	292 (94%)	15 (5%)	3 (1%)	15	11
All	All	629/656 (96%)	597 (95%)	28 (4%)	4 (1%)	25	23

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	405	VAL
1	B	389	LYS
1	B	387	THR
1	B	405	VAL

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	257/266 (97%)	242 (94%)	15 (6%)	20	18
1	B	246/266 (92%)	233 (95%)	13 (5%)	22	21
All	All	503/532 (94%)	475 (94%)	28 (6%)	22	19

All (28) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	376	ARG
1	A	377	VAL
1	A	392	ILE
1	A	405	VAL
1	A	415	ASP
1	A	419	THR
1	A	489	LYS
1	A	491[A]	ASP
1	A	491[B]	ASP
1	A	499	MET
1	A	549	THR
1	A	557	GLU
1	A	583	ARG
1	A	617	LEU
1	A	681	ASN
1	B	379	TYR
1	B	405	VAL
1	B	419	THR
1	B	440	THR
1	B	489	LYS
1	B	491	ASP
1	B	499	MET
1	B	549	THR
1	B	557	GLU
1	B	583	ARG
1	B	604	LYS
1	B	617	LEU
1	B	681	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	459	GLN
1	A	665	GLN
1	A	681	ASN
1	B	459	GLN
1	B	665	GLN
1	B	681	ASN

5.3.3 RNA [i](#)

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](#)

Of 9 ligands modelled in this entry, 2 are monoatomic - leaving 7 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	$\# Z > 2$
3	GOL	B	754	-	5,5,5	0.40	0	5,5,5	0.18	0
3	GOL	B	750	-	5,5,5	0.36	0	5,5,5	0.23	0
3	GOL	A	703	-	5,5,5	0.35	0	5,5,5	0.33	0
3	GOL	B	751	-	5,5,5	0.42	0	5,5,5	0.14	0
3	GOL	A	700	-	5,5,5	0.38	0	5,5,5	0.23	0
3	GOL	A	701	-	5,5,5	0.42	0	5,5,5	0.31	0
3	GOL	A	702	-	5,5,5	0.37	0	5,5,5	0.28	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
3	GOL	B	754	-	-	2/4/4/4	-
3	GOL	B	750	-	-	0/4/4/4	-
3	GOL	A	703	-	-	2/4/4/4	-
3	GOL	B	751	-	-	0/4/4/4	-
3	GOL	A	700	-	-	0/4/4/4	-
3	GOL	A	701	-	-	4/4/4/4	-
3	GOL	A	702	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	754	GOL	C1-C2-C3-O3
3	A	701	GOL	O1-C1-C2-C3
3	A	701	GOL	C1-C2-C3-O3
3	A	702	GOL	C1-C2-C3-O3
3	A	702	GOL	O2-C2-C3-O3
3	A	703	GOL	C1-C2-C3-O3
3	B	754	GOL	O2-C2-C3-O3
3	A	703	GOL	O2-C2-C3-O3
3	A	701	GOL	O1-C1-C2-O2
3	A	701	GOL	O2-C2-C3-O3

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 [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	321/328 (97%)	-0.60	5 (1%) 72 73	4, 11, 36, 50	0
1	B	315/328 (96%)	-0.38	11 (3%) 44 43	4, 11, 39, 51	0
All	All	636/656 (96%)	-0.49	16 (2%) 57 58	4, 11, 37, 51	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	411	VAL	5.8
1	B	381	THR	4.3
1	B	417	PHE	3.9
1	B	410	TYR	3.5
1	B	391	VAL	3.0
1	A	440	THR	3.0
1	B	441	THR	2.9
1	B	464	GLY	2.7
1	A	405	VAL	2.7
1	A	362	THR	2.5
1	B	380	ILE	2.5
1	B	422	LYS	2.5
1	A	399	THR	2.4
1	B	392	ILE	2.3
1	A	464	GLY	2.2
1	B	390	ALA	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 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
3	GOL	A	702	6/6	0.78	0.18	82,82,83,83	0
3	GOL	B	751	6/6	0.89	0.18	68,68,69,69	0
3	GOL	A	703	6/6	0.92	0.12	66,67,68,68	0
3	GOL	B	754	6/6	0.92	0.17	59,60,61,62	0
3	GOL	A	701	6/6	0.92	0.19	68,68,68,69	0
2	NA	B	850	1/1	0.92	0.10	52,52,52,52	0
3	GOL	B	750	6/6	0.96	0.10	42,43,45,46	0
2	NA	A	800	1/1	0.97	0.20	33,33,33,33	0
3	GOL	A	700	6/6	0.98	0.09	32,33,35,36	0

6.5 Other polymers [i](#)

There are no such residues in this entry.