



Full wwPDB X-ray Structure Validation Report ⓘ

May 13, 2020 – 06:02 pm BST

PDB ID : 4DLA
Title : Crystal structure of S-nitrosogluthathione reductase apoenzyme from tomato (Solanum lycopersicum)
Authors : Kopecny, D.; Tylichova, M.; Briozzo, P.
Deposited on : 2012-02-06
Resolution : 2.14 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

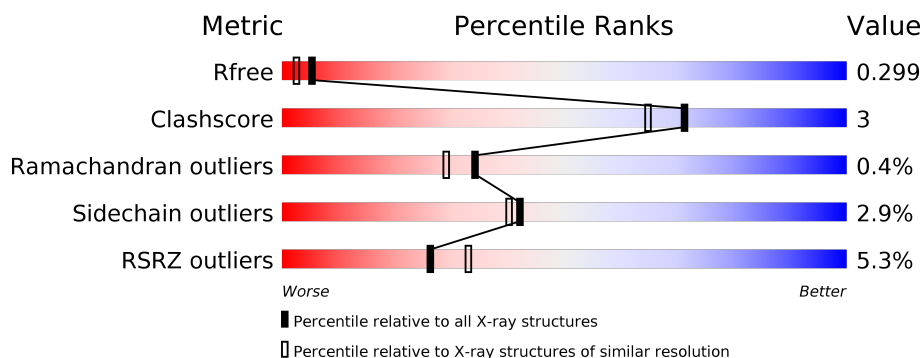
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.14 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	2523 (2.16-2.12)
Clashscore	141614	2653 (2.16-2.12)
Ramachandran outliers	138981	2618 (2.16-2.12)
Sidechain outliers	138945	2617 (2.16-2.12)
RSRZ outliers	127900	2485 (2.16-2.12)

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	396	<div> <div>6%</div> <div> <div></div> <div>88%</div> <div>8%</div> <div></div> </div> <div></div> </div>
1	B	396	<div> <div>4%</div> <div> <div></div> <div>85%</div> <div>10%</div> <div></div> </div> <div></div> </div>

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 6227 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 Alcohol dehydrogenase class III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	379	Total	C	N	O	S	0	0	0
			2849	1805	487	536	21			
1	B	379	Total	C	N	O	S	0	0	0
			2849	1805	487	536	21			

There are 36 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-16	MET	-	EXPRESSION TAG	UNP D2Y3F4
A	-15	GLY	-	EXPRESSION TAG	UNP D2Y3F4
A	-14	SER	-	EXPRESSION TAG	UNP D2Y3F4
A	-13	SER	-	EXPRESSION TAG	UNP D2Y3F4
A	-12	HIS	-	EXPRESSION TAG	UNP D2Y3F4
A	-11	HIS	-	EXPRESSION TAG	UNP D2Y3F4
A	-10	HIS	-	EXPRESSION TAG	UNP D2Y3F4
A	-9	HIS	-	EXPRESSION TAG	UNP D2Y3F4
A	-8	HIS	-	EXPRESSION TAG	UNP D2Y3F4
A	-7	HIS	-	EXPRESSION TAG	UNP D2Y3F4
A	-6	SER	-	EXPRESSION TAG	UNP D2Y3F4
A	-5	GLN	-	EXPRESSION TAG	UNP D2Y3F4
A	-4	ASP	-	EXPRESSION TAG	UNP D2Y3F4
A	-3	PRO	-	EXPRESSION TAG	UNP D2Y3F4
A	-2	ASN	-	EXPRESSION TAG	UNP D2Y3F4
A	-1	SER	-	EXPRESSION TAG	UNP D2Y3F4
A	0	SER	-	EXPRESSION TAG	UNP D2Y3F4
A	1	SER	-	EXPRESSION TAG	UNP D2Y3F4
B	-16	MET	-	EXPRESSION TAG	UNP D2Y3F4
B	-15	GLY	-	EXPRESSION TAG	UNP D2Y3F4
B	-14	SER	-	EXPRESSION TAG	UNP D2Y3F4
B	-13	SER	-	EXPRESSION TAG	UNP D2Y3F4
B	-12	HIS	-	EXPRESSION TAG	UNP D2Y3F4
B	-11	HIS	-	EXPRESSION TAG	UNP D2Y3F4
B	-10	HIS	-	EXPRESSION TAG	UNP D2Y3F4

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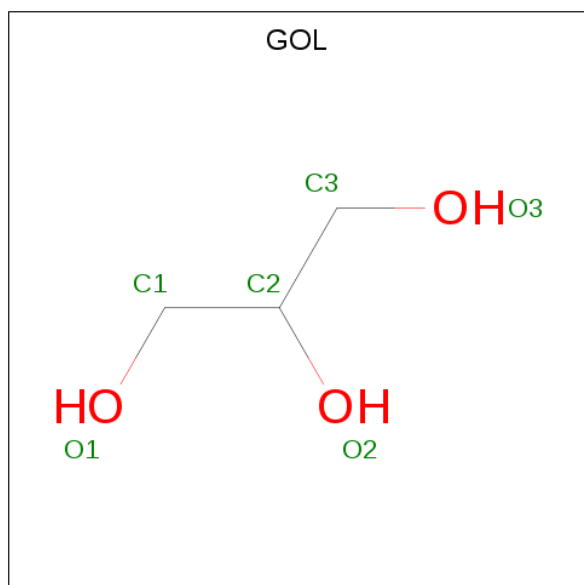
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Chain	Residue	Modelled	Actual	Comment	Reference
B	-9	HIS	-	EXPRESSION TAG	UNP D2Y3F4
B	-8	HIS	-	EXPRESSION TAG	UNP D2Y3F4
B	-7	HIS	-	EXPRESSION TAG	UNP D2Y3F4
B	-6	SER	-	EXPRESSION TAG	UNP D2Y3F4
B	-5	GLN	-	EXPRESSION TAG	UNP D2Y3F4
B	-4	ASP	-	EXPRESSION TAG	UNP D2Y3F4
B	-3	PRO	-	EXPRESSION TAG	UNP D2Y3F4
B	-2	ASN	-	EXPRESSION TAG	UNP D2Y3F4
B	-1	SER	-	EXPRESSION TAG	UNP D2Y3F4
B	0	SER	-	EXPRESSION TAG	UNP D2Y3F4
B	1	SER	-	EXPRESSION TAG	UNP D2Y3F4

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	B	2	Total Zn 2 2	0	0
2	A	2	Total Zn 2 2	0	0

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



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

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

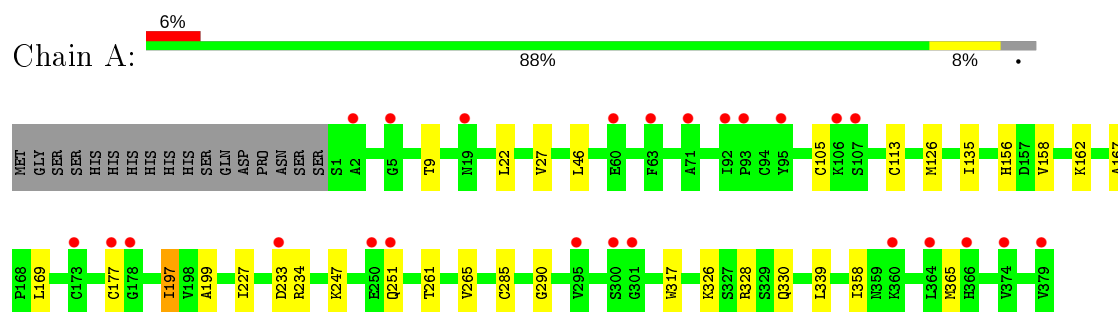
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	238	Total 238	O 238	0	0
4	B	227	Total 227	O 227	0	0

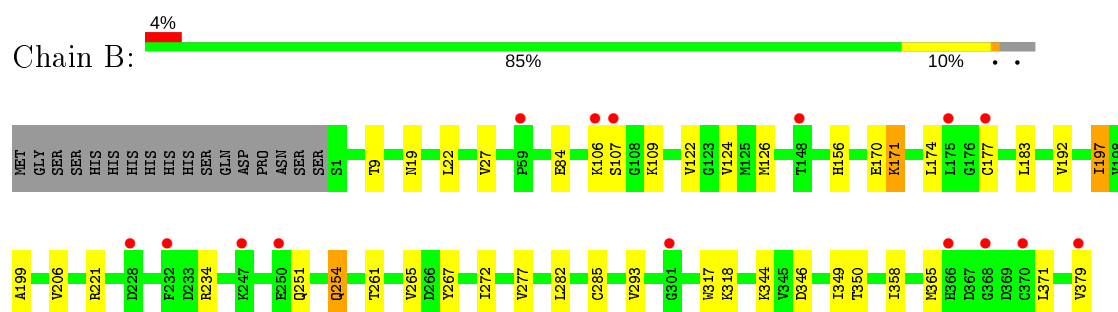
3 Residue-property plots [i](#)

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: Alcohol dehydrogenase class III



- Molecule 1: Alcohol dehydrogenase class III



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	83.71Å 125.00Å 77.15Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	31.25 – 2.14 31.25 – 2.14	Depositor EDS
% Data completeness (in resolution range)	96.8 (31.25-2.14) 97.1 (31.25-2.14)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.61 (at 2.14Å)	Xtriage
Refinement program	BUSTER 2.10.0	Depositor
R, R_{free}	0.237 , 0.297 0.237 , 0.299	Depositor DCC
R_{free} test set	2220 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	24.5	Xtriage
Anisotropy	1.123	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 59.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	6227	wwPDB-VP
Average B, all atoms (Å ²)	34.0	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 50.75 % 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 6.1918e-05. 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: GOL, ZN

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	0/2907	0.68	0/3941
1	B	0.47	0/2907	0.68	0/3941
All	All	0.46	0/5814	0.68	0/7882

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	2849	0	2848	15	0
1	B	2849	0	2848	25	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
3	A	24	0	32	1	0
3	B	36	0	48	4	0
4	A	238	0	0	0	0
4	B	227	0	0	1	0
All	All	6227	0	5776	40	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 (40) 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:126:MET:H	1:B:156:HIS:HE1	1.27	0.82
1:A:326:LYS:H	1:A:330:GLN:HE21	1.28	0.81
1:A:126:MET:H	1:A:156:HIS:HE1	1.29	0.80
1:B:254:GLN:HE21	1:B:254:GLN:H	1.32	0.77
1:A:197:ILE:HD11	1:A:261:THR:HG22	1.72	0.71
1:B:346:ASP:HB3	3:B:407:GOL:H12	1.78	0.64
1:A:105:CYS:SG	1:A:113:CYS:HB2	2.42	0.59
1:B:170:GLU:HG2	1:B:171:LYS:HD2	1.84	0.58
1:A:227:ILE:HB	1:A:247:LYS:HE3	1.86	0.57
1:B:126:MET:H	1:B:156:HIS:CE1	2.17	0.57
1:B:344:LYS:HG3	3:B:403:GOL:H12	1.87	0.56
1:A:126:MET:H	1:A:156:HIS:CE1	2.19	0.56
1:A:197:ILE:HD11	1:A:261:THR:CG2	2.37	0.54
1:B:107:SER:HB2	1:B:109:LYS:HD3	1.90	0.54
1:B:174:LEU:HD11	1:B:349:ILE:HG13	1.89	0.53
1:B:272:ILE:HD12	1:B:277:VAL:HG11	1.92	0.51
1:B:199:ALA:HB2	1:B:265:VAL:HG11	1.93	0.51
1:A:199:ALA:HB2	1:A:265:VAL:HG11	1.92	0.50
1:B:349:ILE:HB	3:B:407:GOL:H2	1.94	0.50
1:A:285:CYS:HB3	1:A:290:GLY:HA3	1.94	0.50
1:B:126:MET:N	1:B:156:HIS:HE1	2.04	0.48
1:A:22:LEU:HD12	1:A:358:ILE:HG12	1.95	0.47
1:B:365:MET:HE3	4:B:596:HOH:O	2.13	0.46
1:B:9:THR:HA	1:B:27:VAL:O	2.17	0.45
1:B:192:VAL:HG22	1:B:267:TYR:CD1	2.52	0.44
1:B:206:VAL:H	3:B:404:GOL:H12	1.82	0.44
1:B:22:LEU:HD12	1:B:358:ILE:HG12	1.99	0.43
1:A:9:THR:HA	1:A:27:VAL:O	2.20	0.42
1:A:169:LEU:H	3:A:404:GOL:H12	1.84	0.42
1:B:197:ILE:HD11	1:B:265:VAL:HG12	2.00	0.42
1:B:197:ILE:HD11	1:B:261:THR:HG21	2.01	0.42
1:A:167:ALA:HB2	1:A:339:LEU:HD11	2.02	0.41
1:B:282:LEU:O	1:B:285:CYS:HB2	2.21	0.41
1:B:293:VAL:HG22	1:B:318:LYS:HG3	2.02	0.41
1:B:346:ASP:HA	1:B:349:ILE:HD12	2.02	0.41
1:A:27:VAL:HG12	1:A:135:ILE:HD11	2.02	0.41
1:B:197:ILE:HB	1:B:221:ARG:HB2	2.02	0.41
1:B:122:VAL:HG23	1:B:124:VAL:HG22	2.03	0.41
1:A:158:VAL:O	1:A:328:ARG:HD2	2.21	0.40
1:B:350:THR:HG23	1:B:371:LEU:HB2	2.04	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	377/396 (95%)	355 (94%)	21 (6%)	1 (0%)	41	36
1	B	377/396 (95%)	355 (94%)	20 (5%)	2 (0%)	29	22
All	All	754/792 (95%)	710 (94%)	41 (5%)	3 (0%)	34	29

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	19	ASN
1	A	177	CYS
1	B	177	CYS

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	309/325 (95%)	301 (97%)	8 (3%)	46	45
1	B	309/325 (95%)	299 (97%)	10 (3%)	39	37
All	All	618/650 (95%)	600 (97%)	18 (3%)	42	40

All (18) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	46	LEU
1	A	162	LYS
1	A	197	ILE
1	A	233	ASP
1	A	234	ARG
1	A	251	GLN
1	A	317	TRP
1	A	365	MET
1	B	84	GLU
1	B	106	LYS
1	B	171	LYS
1	B	183	LEU
1	B	197	ILE
1	B	234	ARG
1	B	251	GLN
1	B	254	GLN
1	B	317	TRP
1	B	379	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	33	GLN
1	A	90	HIS
1	A	96	GLN
1	A	127	ASN
1	A	156	HIS
1	A	188	ASN
1	A	330	GLN
1	B	33	GLN
1	B	90	HIS
1	B	96	GLN
1	B	127	ASN
1	B	156	HIS
1	B	188	ASN
1	B	254	GLN
1	B	352	ASN

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](#)

Of 14 ligands modelled in this entry, 4 are monoatomic - leaving 10 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	404	-	5,5,5	0.06	0	5,5,5	0.20	0
3	GOL	A	406	-	5,5,5	0.05	0	5,5,5	0.16	0
3	GOL	B	408	-	5,5,5	0.06	0	5,5,5	0.18	0
3	GOL	A	405	-	5,5,5	0.07	0	5,5,5	0.21	0
3	GOL	B	405	-	5,5,5	0.07	0	5,5,5	0.18	0
3	GOL	B	406	-	5,5,5	0.14	0	5,5,5	0.29	0
3	GOL	A	403	-	5,5,5	0.07	0	5,5,5	0.56	0
3	GOL	A	404	-	5,5,5	0.09	0	5,5,5	0.28	0
3	GOL	B	403	-	5,5,5	0.08	0	5,5,5	0.24	0
3	GOL	B	407	-	5,5,5	0.08	0	5,5,5	0.23	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	404	-	-	0/4/4/4	-
3	GOL	A	406	-	-	0/4/4/4	-
3	GOL	B	408	-	-	0/4/4/4	-
3	GOL	A	405	-	-	0/4/4/4	-
3	GOL	B	405	-	-	1/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GOL	B	406	-	-	0/4/4/4	-
3	GOL	A	403	-	-	1/4/4/4	-
3	GOL	A	404	-	-	2/4/4/4	-
3	GOL	B	403	-	-	0/4/4/4	-
3	GOL	B	407	-	-	2/4/4/4	-

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
3	A	404	GOL	C1-C2-C3-O3
3	A	403	GOL	O1-C1-C2-C3
3	B	407	GOL	O1-C1-C2-C3
3	A	404	GOL	O2-C2-C3-O3
3	B	407	GOL	O1-C1-C2-O2
3	B	405	GOL	O1-C1-C2-C3

There are no ring outliers.

4 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	404	GOL	1	0
3	A	404	GOL	1	0
3	B	403	GOL	1	0
3	B	407	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	379/396 (95%)	0.60	25 (6%) 18 23	18, 32, 56, 66	0
1	B	379/396 (95%)	0.48	15 (3%) 38 46	18, 28, 53, 65	0
All	All	758/792 (95%)	0.54	40 (5%) 26 33	18, 30, 55, 66	0

All (40) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	301	GLY	5.1
1	A	301	GLY	4.9
1	A	300	SER	4.0
1	B	106	LYS	4.0
1	A	107	SER	3.6
1	A	379	VAL	3.4
1	A	106	LYS	3.3
1	A	177	CYS	3.1
1	B	250	GLU	3.0
1	B	368	GLY	3.0
1	B	379	VAL	2.9
1	A	374	VAL	2.8
1	A	360	LYS	2.8
1	A	178	GLY	2.7
1	B	366	HIS	2.6
1	A	366	HIS	2.5
1	A	250	GLU	2.5
1	A	92	ILE	2.4
1	B	175	LEU	2.4
1	B	370	CYS	2.3
1	A	251	GLN	2.2
1	A	5	GLY	2.2
1	B	228	ASP	2.2
1	A	95	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	232	PHE	2.2
1	A	2	ALA	2.2
1	A	71	ALA	2.2
1	B	107	SER	2.2
1	A	295	VAL	2.2
1	B	148	THR	2.1
1	A	60	GLU	2.1
1	A	19	ASN	2.1
1	A	63	PHE	2.1
1	B	59	PRO	2.0
1	B	177	CYS	2.0
1	A	364	LEU	2.0
1	B	247	LYS	2.0
1	A	93	PRO	2.0
1	A	173	CYS	2.0
1	A	233	ASP	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
3	GOL	A	404	6/6	0.58	0.21	62,63,64,64	0
3	GOL	B	408	6/6	0.67	0.25	51,55,56,57	0
3	GOL	A	403	6/6	0.68	0.34	47,49,50,51	0
3	GOL	B	407	6/6	0.69	0.30	41,46,48,49	0
3	GOL	B	404	6/6	0.72	0.38	51,54,55,58	0
3	GOL	A	405	6/6	0.74	0.22	72,74,74,74	0
3	GOL	B	405	6/6	0.75	0.13	53,55,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	GOL	A	406	6/6	0.78	0.21	45,47,49,49	0
3	GOL	B	403	6/6	0.79	0.17	47,53,55,55	0
3	GOL	B	406	6/6	0.84	0.14	36,38,39,39	0
2	ZN	A	401	1/1	0.91	0.10	40,40,40,40	0
2	ZN	B	401	1/1	0.96	0.09	36,36,36,36	0
2	ZN	B	402	1/1	0.99	0.01	28,28,28,28	0
2	ZN	A	402	1/1	1.00	0.03	30,30,30,30	0

6.5 Other polymers [i](#)

There are no such residues in this entry.