



# Full wwPDB X-ray Structure Validation Report ⓘ

Nov 15, 2021 – 02:14 PM JST

PDB ID : 7VFK  
Title : Crystal structure of SdgB (ligand-free form)  
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Deposited on : 2021-09-13  
Resolution : 1.84 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](mailto: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.

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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 : 2.23.2  
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) : 2.23.2

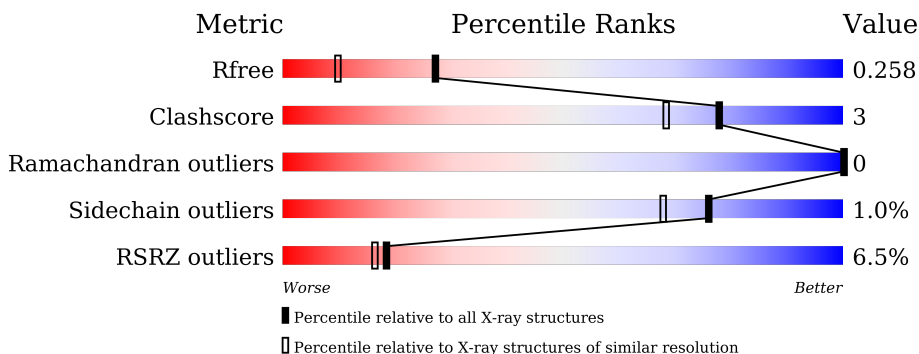
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.84 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	4003 (1.86-1.82)
Clashscore	141614	4233 (1.86-1.82)
Ramachandran outliers	138981	4185 (1.86-1.82)
Sidechain outliers	138945	4186 (1.86-1.82)
RSRZ outliers	127900	3957 (1.86-1.82)

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  $\geq 3$ , 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	505	
1	B	505	

## 2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 8681 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 Glycosyl transferase, group 1 family protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	499	4160	2686	693	770	11	0	0	0
1	B	492	4103	2649	683	760	11	0	0	0

There are 18 discrepancies between the modelled and reference sequences:

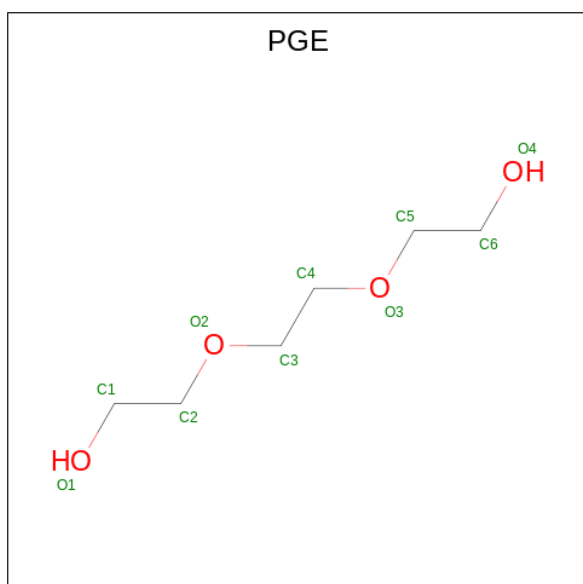
Chain	Residue	Modelled	Actual	Comment	Reference
A	0	SER	-	expression tag	UNP A0A0H2XGN0
A	497	LEU	-	expression tag	UNP A0A0H2XGN0
A	498	GLU	-	expression tag	UNP A0A0H2XGN0
A	499	HIS	-	expression tag	UNP A0A0H2XGN0
A	500	HIS	-	expression tag	UNP A0A0H2XGN0
A	501	HIS	-	expression tag	UNP A0A0H2XGN0
A	502	HIS	-	expression tag	UNP A0A0H2XGN0
A	503	HIS	-	expression tag	UNP A0A0H2XGN0
A	504	HIS	-	expression tag	UNP A0A0H2XGN0
B	0	SER	-	expression tag	UNP A0A0H2XGN0
B	497	LEU	-	expression tag	UNP A0A0H2XGN0
B	498	GLU	-	expression tag	UNP A0A0H2XGN0
B	499	HIS	-	expression tag	UNP A0A0H2XGN0
B	500	HIS	-	expression tag	UNP A0A0H2XGN0
B	501	HIS	-	expression tag	UNP A0A0H2XGN0
B	502	HIS	-	expression tag	UNP A0A0H2XGN0
B	503	HIS	-	expression tag	UNP A0A0H2XGN0
B	504	HIS	-	expression tag	UNP A0A0H2XGN0

- Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).



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

- Molecule 3 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: C<sub>6</sub>H<sub>14</sub>O<sub>4</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	B	1	Total	C	O	0	0
			10	6	4		

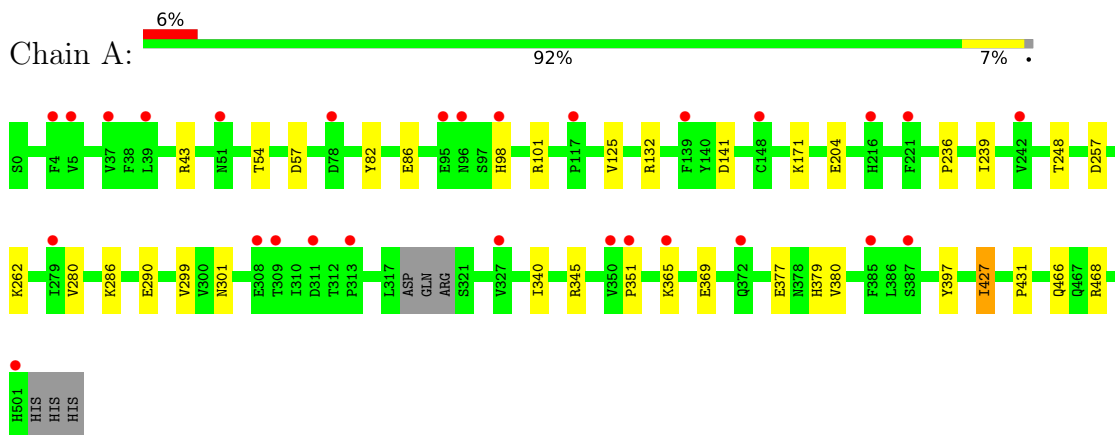
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	266	Total	O	0	0
			266	266		
4	B	112	Total	O	0	0
			112	112		

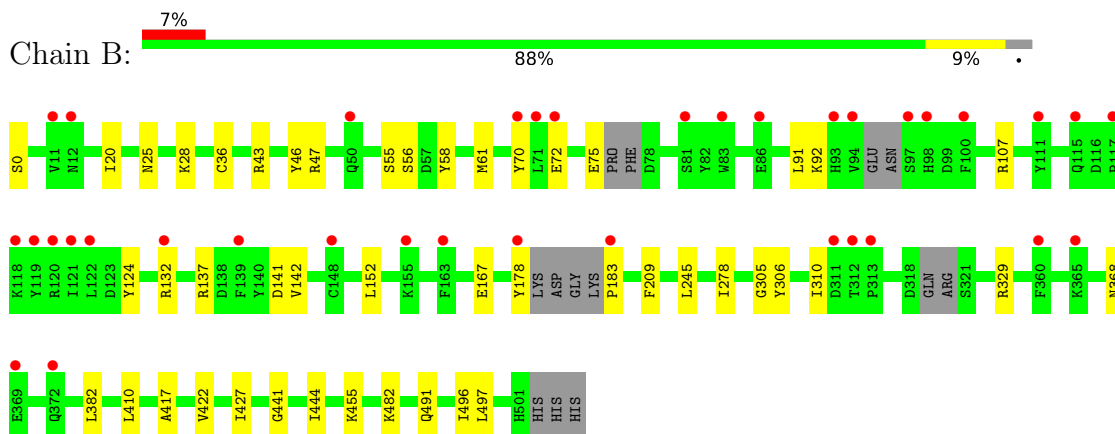
### 3 Residue-property plots [i](#)

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: Glycosyl transferase, group 1 family protein



- Molecule 1: Glycosyl transferase, group 1 family protein



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	42.97Å 206.34Å 66.33Å 90.00° 105.06° 90.00°	Depositor
Resolution (Å)	29.26 – 1.84 29.26 – 1.84	Depositor EDS
% Data completeness (in resolution range)	98.0 (29.26-1.84) 98.0 (29.26-1.84)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.66 (at 1.84Å)	Xtrriage
Refinement program	PHENIX 1.19.2_4158	Depositor
R, $R_{free}$	0.217 , 0.259 0.217 , 0.258	Depositor DCC
$R_{free}$ test set	4712 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	32.3	Xtrriage
Anisotropy	0.121	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.38 , 48.5	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	8681	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	39.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.43% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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, PGE

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	0/4267	0.61	0/5774
1	B	0.40	0/4205	0.60	0/5686
All	All	0.43	0/8472	0.60	0/11460

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	4160	0	4065	23	0
1	B	4103	0	4006	26	0
2	A	18	0	24	1	0
2	B	12	0	16	0	0
3	B	10	0	14	0	0
4	A	266	0	0	3	0
4	B	112	0	0	1	0
All	All	8681	0	8125	48	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 (48) 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:368:ASN:HD22	1:B:382:LEU:HD12	1.50	0.77
1:B:92:LYS:NZ	4:B:701:HOH:O	2.22	0.70
1:B:61:MET:HG3	1:B:209:PHE:CG	2.31	0.65
1:B:245:LEU:HD13	1:B:278:ILE:HG23	1.81	0.62
1:A:101:ARG:HH21	1:A:132:ARG:HH22	1.48	0.61
1:A:377:GLU:HB3	4:A:861:HOH:O	2.01	0.59
1:A:365:LYS:O	1:A:369:GLU:HG3	2.07	0.55
1:B:137:ARG:HG3	1:B:152:LEU:HD11	1.88	0.55
1:B:25:ASN:HA	1:B:28:LYS:HD3	1.89	0.54
1:B:305:GLY:HA3	1:B:410:LEU:HD21	1.90	0.53
1:A:427:ILE:HD12	1:A:431:PRO:HG2	1.93	0.51
1:B:46:TYR:OH	1:B:72:GLU:OE1	2.29	0.51
1:B:132:ARG:HH11	1:B:132:ARG:HG3	1.76	0.50
1:B:43:ARG:HB2	1:B:141:ASP:HA	1.94	0.50
1:A:397:TYR:CZ	1:A:466:GLN:HG3	2.46	0.49
1:A:54:THR:HG22	1:A:57:ASP:CG	2.32	0.49
1:A:54:THR:HG22	1:A:57:ASP:OD2	2.14	0.48
1:A:43:ARG:HB2	1:A:141:ASP:HA	1.96	0.48
1:B:444:ILE:HD11	1:B:455:LYS:HG3	1.95	0.48
1:A:204:GLU:OE2	1:B:107:ARG:NH2	2.39	0.47
1:A:101:ARG:NH2	1:A:132:ARG:HH22	2.13	0.47
1:B:178:TYR:CZ	1:B:183:PRO:HB3	2.49	0.46
1:A:340:ILE:CD1	1:A:380:VAL:HG11	2.44	0.46
1:B:91:LEU:HD12	1:B:91:LEU:N	2.29	0.46
1:A:468:ARG:HG2	4:A:839:HOH:O	2.16	0.46
1:B:61:MET:HG3	1:B:209:PHE:CD2	2.51	0.45
1:A:351:PRO:O	1:A:379:HIS:HE1	1.99	0.45
1:B:55:SER:HA	1:B:58:TYR:CE2	2.52	0.44
1:A:125:VAL:HG11	2:A:602:GOL:H12	1.99	0.44
1:A:397:TYR:CE1	1:A:466:GLN:HG3	2.53	0.44
1:A:236:PRO:HD2	1:A:239:ILE:HD12	2.01	0.43
1:A:280:VAL:O	1:A:301:ASN:HA	2.18	0.43
1:B:20:ILE:HG22	1:B:36:CYS:SG	2.58	0.43
1:B:56:SER:HA	1:B:70:TYR:CD1	2.53	0.43
1:B:497:LEU:HD23	1:B:497:LEU:HA	1.88	0.43
1:B:47:ARG:HB2	1:B:142:VAL:HG11	1.99	0.43
1:B:178:TYR:CE1	1:B:183:PRO:HB3	2.54	0.43
1:A:248:THR:O	1:A:262:LYS:HE2	2.19	0.42
1:A:257:ASP:OD2	4:A:701:HOH:O	2.22	0.42
1:B:496:ILE:HD13	1:B:496:ILE:HA	1.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:167:GLU:OE1	1:B:167:GLU:N	2.53	0.41
1:A:82:TYR:HA	1:A:86:GLU:HG2	2.03	0.41
1:A:171:LYS:HA	1:A:171:LYS:HD2	1.91	0.41
1:B:306:TYR:CD2	1:B:482:LYS:HB2	2.56	0.41
1:B:310:ILE:HD11	1:B:417:ALA:HB1	2.03	0.40
1:A:286:LYS:HE2	1:A:299:VAL:O	2.21	0.40
1:A:290:GLU:HG3	1:A:299:VAL:HB	2.02	0.40
1:B:422:VAL:O	1:B:441:GLY:HA3	2.22	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	495/505 (98%)	481 (97%)	14 (3%)	0	100	100
1	B	482/505 (95%)	467 (97%)	15 (3%)	0	100	100
All	All	977/1010 (97%)	948 (97%)	29 (3%)	0	100	100

There are no Ramachandran outliers to report.

### 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	460/466 (99%)	457 (99%)	3 (1%)	84	78

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	454/466 (97%)	448 (99%)	6 (1%)	69	58
All	All	914/932 (98%)	905 (99%)	9 (1%)	76	68

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	98	HIS
1	A	345	ARG
1	A	427	ILE
1	B	0	SER
1	B	75	GLU
1	B	124	TYR
1	B	329	ARG
1	B	427	ILE
1	B	491	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	105	GLN
1	A	368	ASN
1	B	368	ASN
1	B	372	GLN

### 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 monosaccharides in this entry.

## 5.6 Ligand geometry

6 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
3	PGE	B	603	-	9,9,9	0.30	0	8,8,8	0.61	0
2	GOL	B	601	-	5,5,5	0.78	0	5,5,5	0.81	0
2	GOL	A	602	-	5,5,5	1.22	0	5,5,5	0.70	0
2	GOL	A	603	-	5,5,5	0.88	0	5,5,5	0.83	0
2	GOL	A	601	-	5,5,5	0.90	0	5,5,5	0.82	0
2	GOL	B	602	-	5,5,5	1.01	0	5,5,5	1.07	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	PGE	B	603	-	-	4/7/7/7	-
2	GOL	B	601	-	-	2/4/4/4	-
2	GOL	A	602	-	-	2/4/4/4	-
2	GOL	A	603	-	-	2/4/4/4	-
2	GOL	A	601	-	-	2/4/4/4	-
2	GOL	B	602	-	-	4/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (16) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	601	GOL	O1-C1-C2-C3
2	A	603	GOL	O1-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
3	B	603	PGE	O2-C3-C4-O3
3	B	603	PGE	C4-C3-O2-C2
2	B	602	GOL	O2-C2-C3-O3
3	B	603	PGE	O1-C1-C2-O2
2	A	602	GOL	C1-C2-C3-O3
2	B	601	GOL	O1-C1-C2-C3
2	B	602	GOL	O1-C1-C2-C3
2	B	602	GOL	C1-C2-C3-O3
2	A	601	GOL	O1-C1-C2-O2
2	A	602	GOL	O2-C2-C3-O3
2	A	603	GOL	O1-C1-C2-O2
2	B	601	GOL	O1-C1-C2-O2
3	B	603	PGE	O3-C5-C6-O4
2	B	602	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
2	A	602	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

### 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	499/505 (98%)	0.24	28 (5%) 24 22	20, 33, 58, 81	0
1	B	492/505 (97%)	0.35	36 (7%) 15 13	25, 39, 64, 87	0
All	All	991/1010 (98%)	0.30	64 (6%) 18 16	20, 36, 62, 87	0

All (64) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	387	SER	5.6
1	B	360	PHE	5.4
1	B	94	VAL	5.0
1	B	178	TYR	4.2
1	B	120	ARG	4.2
1	A	96	ASN	4.2
1	B	71	LEU	4.1
1	A	95	GLU	3.7
1	A	309	THR	3.6
1	B	70	TYR	3.5
1	A	350	VAL	3.5
1	B	93	HIS	3.4
1	B	11	VAL	3.3
1	B	311	ASP	3.3
1	A	98	HIS	3.2
1	A	372	GLN	3.0
1	B	155	LYS	2.9
1	A	311	ASP	2.9
1	A	117	PRO	2.9
1	A	242	VAL	2.8
1	A	4	PHE	2.8
1	A	308	GLU	2.7
1	B	148	CYS	2.7
1	A	37	VAL	2.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	B	115	GLN	2.6
1	B	117	PRO	2.6
1	A	139	PHE	2.6
1	B	50	GLN	2.6
1	B	139	PHE	2.5
1	B	121	ILE	2.5
1	B	122	LEU	2.4
1	A	501	HIS	2.4
1	B	12	ASN	2.4
1	B	72	GLU	2.4
1	B	313	PRO	2.4
1	B	365	LYS	2.3
1	A	385	PHE	2.3
1	B	163	PHE	2.3
1	A	279	ILE	2.3
1	A	39	LEU	2.3
1	B	98	HIS	2.3
1	B	81	SER	2.3
1	B	111	TYR	2.3
1	A	313	PRO	2.3
1	B	132	ARG	2.2
1	A	148	CYS	2.2
1	A	351	PRO	2.2
1	B	97	SER	2.2
1	B	119	TYR	2.2
1	B	183	PRO	2.2
1	A	5	VAL	2.2
1	A	365	LYS	2.1
1	A	221	PHE	2.1
1	A	327	VAL	2.1
1	B	312	THR	2.1
1	A	216	HIS	2.1
1	A	51	ASN	2.1
1	B	83	TRP	2.1
1	B	118	LYS	2.1
1	B	86	GLU	2.0
1	B	369	GLU	2.0
1	B	100	PHE	2.0
1	A	78	ASP	2.0
1	B	372	GLN	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 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
3	PGE	B	603	10/10	0.70	0.21	36,40,47,50	0
2	GOL	A	603	6/6	0.82	0.20	40,46,49,56	0
2	GOL	B	601	6/6	0.88	0.13	40,44,49,49	0
2	GOL	B	602	6/6	0.90	0.10	42,45,49,54	0
2	GOL	A	601	6/6	0.92	0.12	36,38,42,46	0
2	GOL	A	602	6/6	0.94	0.12	26,32,39,42	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.