



# Full wwPDB X-ray Structure Validation Report ⓘ

Jun 24, 2024 – 03:18 PM EDT

PDB ID : 7BQJ  
Title : The structure of PdxI  
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Deposited on : 2020-03-24  
Resolution : 1.98 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.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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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 : 2022.3.0, CSD as543be (2022)  
Xtriage (Phenix) : 1.20.1  
EDS : 2.37.1  
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) : 2.37.1

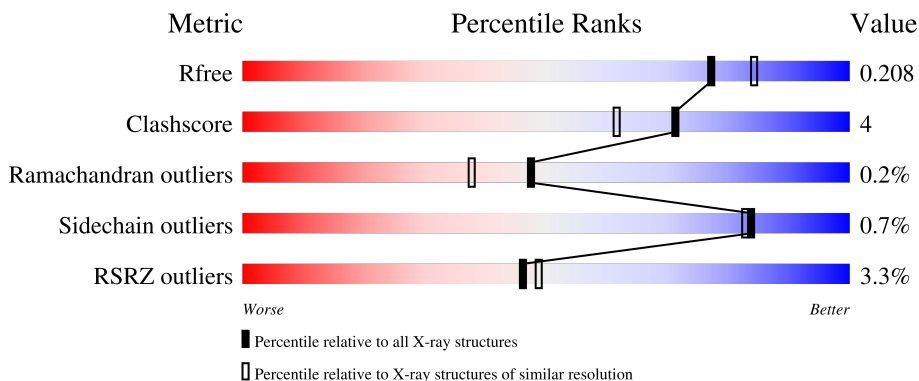
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.98 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	11647 (2.00-1.96)
Clashscore	141614	1014 (1.98-1.98)
Ramachandran outliers	138981	1006 (1.98-1.98)
Sidechain outliers	138945	1006 (1.98-1.98)
RSRZ outliers	127900	11410 (2.00-1.96)

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	460	 2% 89% 9%
1	B	460	 4% 94% 5%

## 2 Entry composition [i](#)

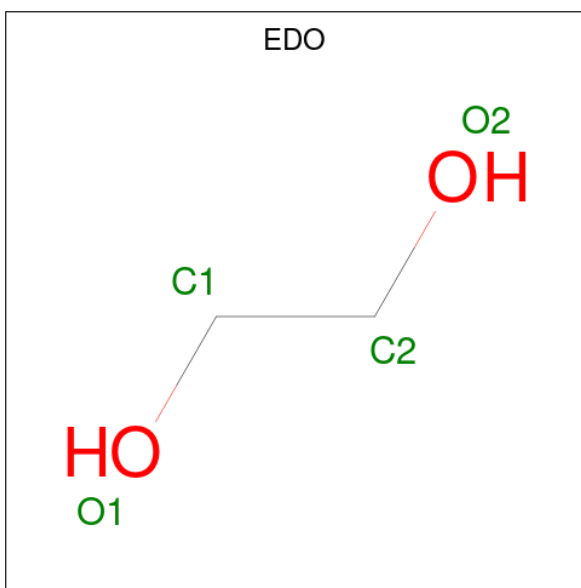
There are 5 unique types of molecules in this entry. The entry contains 7738 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Methyltransf\_2 domain-containing protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	453	Total 3591	C 2285	N 620	O 668	S 18	0	1	0
1	B	456	Total 3613	C 2300	N 622	O 673	S 18	0	2	0

- Molecule 2 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
2	A	1	Total 4	C 2	O 2	0	0
2	A	1	Total 4	C 2	O 2	0	0
2	A	1	Total 4	C 2	O 2	0	0

- Molecule 3 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
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0

- Molecule 4 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Na 1 1	0	0

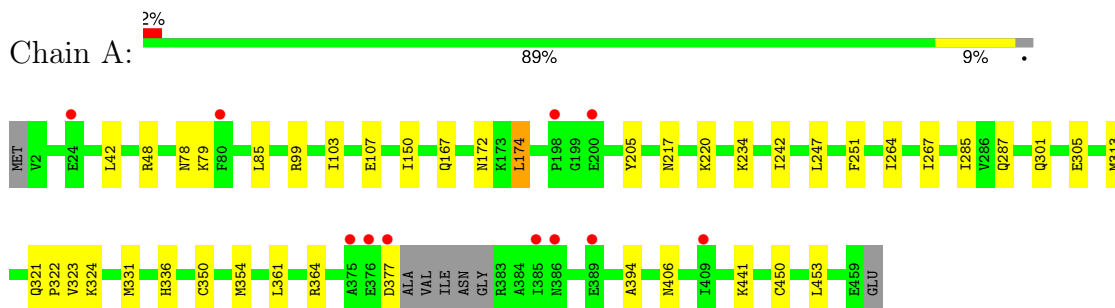
- Molecule 5 is water.

<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>		<b>ZeroOcc</b>	<b>AltConf</b>
5	A	206	Total 206	O 206	0	0
5	B	261	Total 261	O 261	0	0

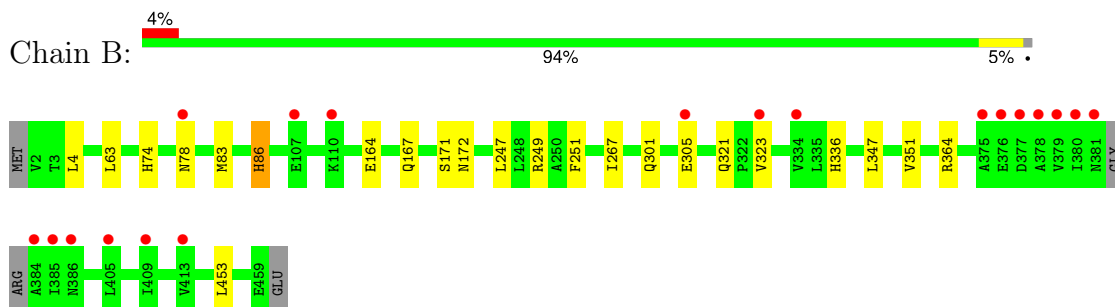
### 3 Residue-property plots [i](#)

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: Methyltransf\_2 domain-containing protein



- Molecule 1: Methyltransf\_2 domain-containing protein



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	87.16Å 87.16Å 294.40Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	41.79 – 1.98 41.79 – 1.97	Depositor EDS
% Data completeness (in resolution range)	99.2 (41.79-1.98) 99.2 (41.79-1.97)	Depositor EDS
$R_{merge}$	0.30	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.68 (at 1.97Å)	Xtrriage
Refinement program	PHENIX 1.12_2829	Depositor
R, $R_{free}$	0.183 , 0.209 0.184 , 0.208	Depositor DCC
$R_{free}$ test set	4026 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	25.2	Xtrriage
Anisotropy	0.063	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.38 , 43.8	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	7738	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	27.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 43.28 % 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 1.8037e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

<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 [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, NA, EDO

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	0.82	2/3677 (0.1%)	0.65	0/4989
1	B	0.54	1/3702 (0.0%)	0.58	0/5025
All	All	0.69	3/7379 (0.0%)	0.62	0/10014

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	79	LYS	C-O	-5.29	1.13	1.23
1	A	85	LEU	C-N	-5.12	1.22	1.34
1	B	171	SER	CB-OG	-5.02	1.35	1.42

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 5.2 Too-close contacts [i](#)

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	3591	0	3534	33	0
1	B	3613	0	3558	20	0
2	A	12	0	18	0	0
3	A	30	0	40	3	0
3	B	24	0	32	0	0
4	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	A	206	0	0	2	0
5	B	261	0	0	1	0
All	All	7738	0	7182	51	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 4.

All (51) 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:74:HIS:CE1	1:B:78[B]:ASN:OD1	1.83	1.29
1:B:74:HIS:ND1	1:B:78[B]:ASN:OD1	1.68	1.25
1:A:78:ASN:OD1	1:B:78[A]:ASN:ND2	1.77	1.15
1:B:167:GLN:NE2	1:B:172:ASN:HB2	1.78	0.97
1:A:287:GLN:HE22	1:A:321:GLN:HE22	1.01	0.96
1:B:321:GLN:HE21	1:B:323:VAL:H	1.15	0.92
1:B:167:GLN:HE22	1:B:172:ASN:HB2	1.34	0.90
1:A:350:CYS:O	1:A:354:MET:HG3	1.77	0.83
1:B:321:GLN:NE2	1:B:323:VAL:H	1.77	0.82
1:A:321:GLN:HE21	1:A:323:VAL:H	1.25	0.80
1:A:377:ASP:HB3	5:A:782:HOH:O	1.94	0.68
1:B:321:GLN:HE21	1:B:323:VAL:N	1.91	0.67
1:B:86:HIS:HE1	1:B:164:GLU:OE2	1.81	0.63
1:A:287:GLN:HE22	1:A:321:GLN:NE2	1.85	0.63
1:A:217:ASN:N	3:A:508:GOL:O3	2.21	0.61
1:A:321:GLN:NE2	1:A:322:PRO:HD2	2.16	0.61
1:A:321:GLN:O	1:A:324:LYS:HE2	2.02	0.59
1:A:174:LEU:HD23	1:B:83:MET:SD	2.43	0.59
1:B:74:HIS:CG	1:B:78[B]:ASN:OD1	2.52	0.58
1:A:220:LYS:CB	1:A:220:LYS:NZ	2.69	0.56
1:A:287:GLN:NE2	1:A:321:GLN:HE22	1.86	0.54
1:A:220:LYS:NZ	1:A:220:LYS:HB3	2.24	0.53
1:A:103:ILE:HD11	1:A:107:GLU:HG2	1.92	0.51
1:B:4:LEU:HD23	1:B:63:LEU:HD23	1.92	0.51
1:B:251:PHE:HB2	1:B:453:LEU:CD2	2.42	0.50
1:B:251:PHE:HB2	1:B:453:LEU:HD23	1.93	0.49
1:A:220:LYS:HB3	1:A:220:LYS:HZ3	1.76	0.49
1:A:234:LYS:HE3	1:A:301:GLN:NE2	2.26	0.49
1:B:301:GLN:HG2	1:B:301:GLN:O	2.12	0.48
1:A:305:GLU:CD	1:A:305:GLU:H	2.16	0.48
1:A:167:GLN:NE2	1:A:172:ASN:OD1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:305:GLU:H	1:B:305:GLU:CD	2.17	0.47
1:A:99[B]:ARG:HB2	1:A:150:ILE:HD13	1.95	0.47
1:A:242:ILE:HG22	1:A:242:ILE:O	2.15	0.47
1:A:285:ILE:HG21	1:A:313:MET:HE3	1.97	0.46
1:A:217:ASN:H	3:A:508:GOL:HO3	1.57	0.46
1:A:42:LEU:HG	5:A:716:HOH:O	2.16	0.46
1:B:78[A]:ASN:HB3	5:B:707:HOH:O	2.15	0.46
1:A:406:ASN:ND2	1:A:450:CYS:HB2	2.31	0.45
1:A:99[B]:ARG:HB2	1:A:150:ILE:CD1	2.46	0.44
1:A:234:LYS:HE3	1:A:301:GLN:HE21	1.82	0.44
1:A:264:ILE:HB	1:A:331:MET:HG2	2.00	0.43
1:A:441:LYS:HA	1:A:441:LYS:HD2	1.57	0.43
1:A:205:TYR:CE1	3:A:506:GOL:H12	2.54	0.42
1:A:361:LEU:C	1:A:361:LEU:HD23	2.40	0.42
1:A:247:LEU:HD21	1:A:364:ARG:HD3	2.01	0.42
1:B:247:LEU:HD21	1:B:364:ARG:HD3	2.02	0.41
1:B:347:LEU:O	1:B:351:VAL:HG23	2.20	0.41
1:A:48:ARG:HG2	1:A:394:ALA:HB3	2.01	0.41
1:A:251:PHE:HB2	1:A:453:LEU:HD23	2.04	0.40
1:B:167:GLN:HE21	1:B:172:ASN:HB2	1.77	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	450/460 (98%)	440 (98%)	9 (2%)	1 (0%)	47 38
1	B	454/460 (99%)	445 (98%)	8 (2%)	1 (0%)	47 38
All	All	904/920 (98%)	885 (98%)	17 (2%)	2 (0%)	47 38

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	267	ILE
1	B	267	ILE

### 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	380/384 (99%)	378 (100%)	2 (0%)	88 87
1	B	383/384 (100%)	380 (99%)	3 (1%)	81 80
All	All	763/768 (99%)	758 (99%)	5 (1%)	84 83

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	174	LEU
1	A	336	HIS
1	B	86	HIS
1	B	249	ARG
1	B	336	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	77	ASN
1	A	301	GLN
1	A	321	GLN
1	A	406	ASN
1	B	86	HIS
1	B	142	HIS
1	B	172	ASN
1	B	321	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 [i](#)

Of 13 ligands modelled in this entry, 1 is monoatomic - leaving 12 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	$\# Z  > 2$
2	EDO	A	503	-	3,3,3	0.46	0	2,2,2	0.39	0
3	GOL	B	502	-	5,5,5	0.87	0	5,5,5	0.79	0
3	GOL	B	503	-	5,5,5	0.77	0	5,5,5	1.22	1 (20%)
3	GOL	A	505	-	5,5,5	0.93	0	5,5,5	1.17	0
3	GOL	A	504	-	5,5,5	1.02	0	5,5,5	1.13	1 (20%)
3	GOL	A	508	-	5,5,5	0.25	0	5,5,5	0.32	0
2	EDO	A	501	-	3,3,3	0.47	0	2,2,2	0.43	0
3	GOL	A	506	-	5,5,5	0.50	0	5,5,5	1.37	1 (20%)
3	GOL	B	501	-	5,5,5	1.06	0	5,5,5	1.04	0
2	EDO	A	502	-	3,3,3	0.37	0	2,2,2	0.52	0
3	GOL	B	504	-	5,5,5	0.95	0	5,5,5	1.23	1 (20%)
3	GOL	A	507	-	5,5,5	1.01	0	5,5,5	1.08	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	EDO	A	503	-	-	0/1/1/1	-
3	GOL	B	502	-	-	2/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GOL	B	503	-	-	0/4/4/4	-
3	GOL	A	505	-	-	4/4/4/4	-
3	GOL	A	504	-	-	0/4/4/4	-
3	GOL	A	508	-	-	2/4/4/4	-
2	EDO	A	501	-	-	1/1/1/1	-
3	GOL	A	506	-	-	4/4/4/4	-
3	GOL	B	501	-	-	0/4/4/4	-
2	EDO	A	502	-	-	0/1/1/1	-
3	GOL	B	504	-	-	0/4/4/4	-
3	GOL	A	507	-	-	4/4/4/4	-

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	504	GOL	C3-C2-C1	-2.32	103.28	111.80
3	A	506	GOL	O2-C2-C3	2.27	118.56	109.18
3	A	504	GOL	C3-C2-C1	-2.15	103.91	111.80
3	B	503	GOL	C3-C2-C1	-2.08	104.16	111.80

There are no chirality outliers.

All (17) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	505	GOL	O1-C1-C2-C3
3	A	505	GOL	C1-C2-C3-O3
3	A	506	GOL	O1-C1-C2-C3
3	A	506	GOL	C1-C2-C3-O3
3	A	506	GOL	O2-C2-C3-O3
3	A	507	GOL	O1-C1-C2-C3
3	A	506	GOL	O1-C1-C2-O2
3	A	507	GOL	C1-C2-C3-O3
3	B	502	GOL	C1-C2-C3-O3
3	A	505	GOL	O1-C1-C2-O2
3	A	507	GOL	O2-C2-C3-O3
3	A	505	GOL	O2-C2-C3-O3
3	A	507	GOL	O1-C1-C2-O2
2	A	501	EDO	O1-C1-C2-O2
3	A	508	GOL	C1-C2-C3-O3
3	A	508	GOL	O2-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
3	B	502	GOL	O2-C2-C3-O3

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	508	GOL	2	0
3	A	506	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	453/460 (98%)	0.21	11 (2%) 59 61	17, 26, 39, 72	0
1	B	456/460 (99%)	0.22	19 (4%) 36 38	17, 24, 39, 63	0
All	All	909/920 (98%)	0.21	30 (3%) 46 49	17, 25, 39, 72	0

All (30) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	379	VAL	11.1
1	B	380	ILE	8.6
1	B	384	ALA	7.1
1	B	381	ASN	4.9
1	A	377	ASP	4.6
1	B	378	ALA	4.4
1	B	385	ILE	4.4
1	A	386	ASN	4.3
1	B	376	GLU	4.3
1	A	376	GLU	4.2
1	A	385	ILE	4.0
1	A	375	ALA	3.9
1	B	375	ALA	3.0
1	B	78[A]	ASN	2.9
1	B	405	LEU	2.8
1	A	198	PRO	2.7
1	B	409	ILE	2.6
1	B	377	ASP	2.5
1	B	386	ASN	2.4
1	A	389	GLU	2.4
1	B	107	GLU	2.3
1	B	413	VAL	2.3
1	B	110	LYS	2.2
1	A	409	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	305	GLU	2.1
1	B	323	VAL	2.1
1	A	24	GLU	2.0
1	A	200	GLU	2.0
1	A	80	PHE	2.0
1	B	334	VAL	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	GOL	A	508	6/6	0.78	0.31	34,45,49,49	0
3	GOL	A	506	6/6	0.84	0.28	32,37,39,43	0
2	EDO	A	503	4/4	0.87	0.29	33,36,40,48	0
3	GOL	B	501	6/6	0.87	0.13	28,33,34,38	0
2	EDO	A	502	4/4	0.88	0.18	39,42,45,48	0
3	GOL	B	503	6/6	0.88	0.18	37,40,45,52	0
3	GOL	A	504	6/6	0.91	0.18	31,34,44,47	0
2	EDO	A	501	4/4	0.91	0.18	23,31,35,45	0
3	GOL	B	502	6/6	0.91	0.21	30,35,38,45	0
3	GOL	A	507	6/6	0.91	0.12	34,38,41,41	0
3	GOL	A	505	6/6	0.93	0.18	29,36,41,44	0
3	GOL	B	504	6/6	0.93	0.19	27,34,41,46	0
4	NA	A	509	1/1	0.98	0.15	37,37,37,37	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.