



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 3, 2017 – 01:42 PM EST

PDB ID : 5T1X
Title : Crystal Structure of Native Tarin Lectin
Authors : Pereira, P.R.; Meagher, J.L.; Stuckey, J.A.
Deposited on : 2016-08-22
Resolution : 1.70 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

<http://wwpdb.org/validation/2016/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 : 1.7.1 (RC1), CSD as537be (2016)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20028442
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20028442

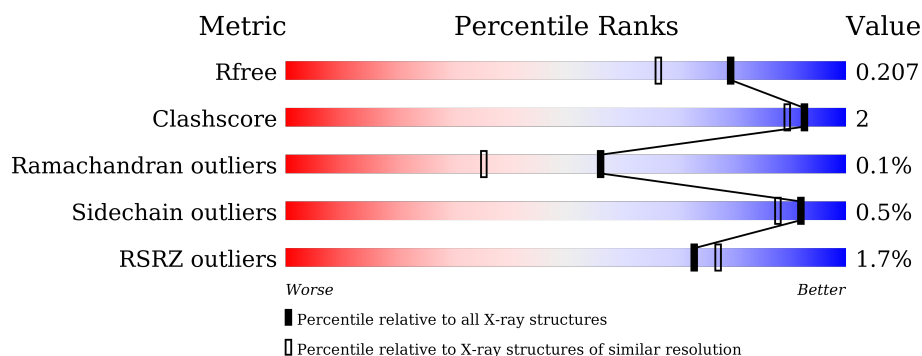
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.70 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.



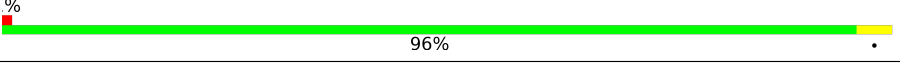

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	3190 (1.70-1.70)
Clashscore	102246	3585 (1.70-1.70)
Ramachandran outliers	100387	3527 (1.70-1.70)
Sidechain outliers	100360	3527 (1.70-1.70)
RSRZ outliers	91569	3200 (1.70-1.70)

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. 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	110	<div> <div>5%</div> <div> <div></div> <div>92%</div> <div>7%</div> <div>.</div> </div> </div>
1	C	110	<div> <div>2%</div> <div> <div></div> <div>87%</div> <div>10%</div> <div>.</div> </div> </div>
1	E	110	<div> <div>3%</div> <div> <div></div> <div>93%</div> <div>6%</div> <div>.</div> </div> </div>
1	G	110	<div> <div>%</div> <div> <div></div> <div>93%</div> <div>6%</div> <div>.</div> </div> </div>
2	B	111	<div> <div>2%</div> <div> <div></div> <div>95%</div> <div>5%</div> </div> </div>
2	D	111	<div> <div>%</div> <div> <div></div> <div>95%</div> </div> </div>

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Mol	Chain	Length	Quality of chain
2	F	111	 96%
2	H	111	 92%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	EDO	B	201	-	-	-	X
3	EDO	F	201	-	-	-	X
3	EDO	F	202	-	-	-	X
3	EDO	F	204	-	-	-	X
4	EPE	E	201	-	-	-	X
5	PGE	G	201	-	-	-	X

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 7604 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 Lectin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	109	Total	C	N	O	S	0	0	0
			825	520	143	159	3			
1	C	107	Total	C	N	O	S	0	1	0
			824	520	144	157	3			
1	E	109	Total	C	N	O	S	0	2	0
			839	528	146	162	3			
1	G	109	Total	C	N	O	S	0	2	1
			829	522	144	160	3			

- Molecule 2 is a protein called Lectin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	110	Total	C	N	O	S	0	4	0
			889	565	152	167	5			
2	D	109	Total	C	N	O	S	0	1	1
			867	550	150	164	3			
2	F	110	Total	C	N	O	S	0	5	0
			897	570	155	167	5			
2	H	109	Total	C	N	O	S	0	4	1
			870	553	148	164	5			

- Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



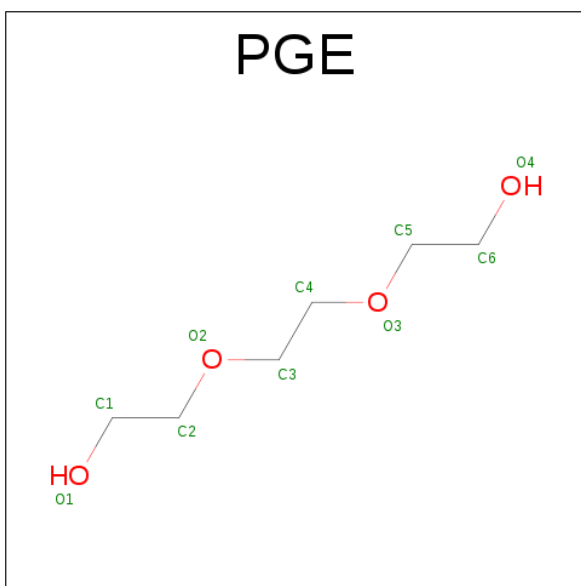
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	B	1	Total	C	O	0	0
			4	2	2		
3	F	1	Total	C	O	0	0
			4	2	2		
3	F	1	Total	C	O	0	0
			4	2	2		
3	F	1	Total	C	O	0	0
			4	2	2		
3	F	1	Total	C	O	0	0
			4	2	2		
3	H	1	Total	C	O	0	0
			4	2	2		

- Molecule 4 is 4-(2-HYDROXYETHYL)-1-PIPERAZINE ETHANESULFONIC ACID (three-letter code: EPE) (formula: C₈H₁₈N₂O₄S).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	E	1	Total	C	N	O	0	0
			11	8	2	1		

- Molecule 5 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: $C_6H_{14}O_4$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	G	1	Total	C	O	0	0
			10	6	4		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	73	Total 73	O 73	0	0
6	B	112	Total 112	O 112	0	0
6	C	67	Total 67	O 67	0	0
6	D	86	Total 86	O 86	0	0
6	E	80	Total 80	O 80	0	0
6	F	115	Total 115	O 115	0	0
6	G	90	Total 90	O 90	0	0
6	H	92	Total 92	O 92	0	0

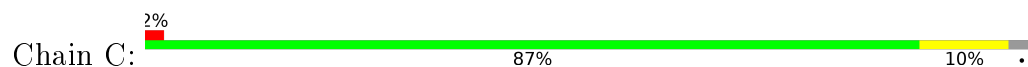
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

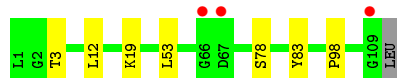
- Molecule 1: Lectin



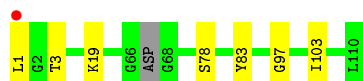
- Molecule 1: Lectin



- Molecule 1: Lectin



- Molecule 1: Lectin

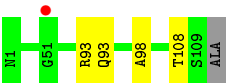


- Molecule 2: Lectin

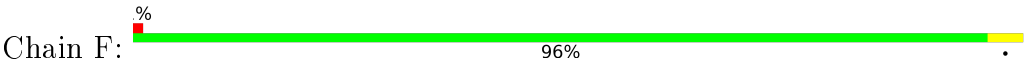


- Molecule 2: Lectin





● Molecule 2: Lectin



● Molecule 2: Lectin



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	47.70 Å 82.71 Å 122.70 Å 90.00° 91.76° 90.00°	Depositor
Resolution (Å)	17.14 – 1.70 30.13 – 1.70	Depositor EDS
% Data completeness (in resolution range)	99.8 (17.14-1.70) 99.8 (30.13-1.70)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.96 (at 1.70 Å)	Xtriage
Refinement program	BUSTER 2.11.1	Depositor
R, R_{free}	0.180 , 0.204 0.181 , 0.207	Depositor DCC
R_{free} test set	5214 reflections (5.26%)	DCC
Wilson B-factor (Å ²)	14.9	Xtriage
Anisotropy	0.027	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 51.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.077 for h,-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	7604	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.56% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: EPE, PGE, 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	0.39	0/843	0.64	0/1149
1	C	0.38	0/844	0.63	0/1148
1	E	0.40	0/863	0.63	0/1175
1	G	0.39	0/852	0.64	0/1160
2	B	0.46	0/918	0.62	0/1239
2	D	0.45	1/887 (0.1%)	0.64	0/1199
2	F	0.47	1/929 (0.1%)	0.64	0/1253
2	H	0.44	0/899	0.64	0/1216
All	All	0.43	2/7035 (0.0%)	0.63	0/9539

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	D	0	1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	93[A]	ARG	CD-NE	-5.13	1.37	1.46
2	D	93[A]	ARG	CD-NE	-5.01	1.38	1.46

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	D	108	THR	Mainchain

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	825	0	791	5	0
1	C	824	0	796	7	0
1	E	839	0	811	7	0
1	G	829	0	799	5	0
2	B	889	0	855	3	0
2	D	867	0	824	1	0
2	F	897	0	868	1	0
2	H	870	0	824	4	0
3	B	4	0	6	2	0
3	F	20	0	30	0	0
3	H	4	0	6	0	0
4	E	11	0	15	3	0
5	G	10	0	14	1	0
6	A	73	0	0	0	0
6	B	112	0	0	0	0
6	C	67	0	0	0	0
6	D	86	0	0	0	0
6	E	80	0	0	0	0
6	F	115	0	0	0	0
6	G	90	0	0	0	0
6	H	92	0	0	0	0
All	All	7604	0	6639	27	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 2.

All (27) 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:E:98:PRO:HG2	4:E:201:EPE:H82	1.58	0.86
1:E:98:PRO:CG	4:E:201:EPE:H82	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:83:TYR:CD1	1:A:97:GLY:HA3	2.44	0.52
2:B:55:HIS:HD2	3:B:201:EDO:H21	1.74	0.52
2:F:88:TYR:CD1	2:F:102:GLY:HA3	2.46	0.49
2:H:88:TYR:CD1	2:H:102:GLY:HA3	2.48	0.49
1:A:19:LYS:HD2	1:C:3:THR:HG21	1.94	0.48
1:G:103:ILE:HB	2:H:98:ALA:HB3	1.97	0.47
1:C:62:VAL:HG22	1:C:73:ARG:HG2	1.96	0.46
1:C:78:SER:HB3	1:C:83:TYR:OH	2.14	0.46
2:B:88:TYR:CD1	2:B:102:GLY:HA3	2.51	0.46
1:A:78:SER:HB3	1:A:83:TYR:OH	2.16	0.46
1:C:103:ILE:HB	2:D:98:ALA:HB3	1.98	0.46
1:A:3:THR:HG21	1:C:19:LYS:HD2	1.98	0.45
1:E:12:LEU:HB3	1:E:53:LEU:HB3	1.98	0.45
1:E:19:LYS:HD2	1:G:3:THR:HG21	1.99	0.45
1:A:12:LEU:HB3	1:A:53:LEU:HB3	1.99	0.44
1:G:83:TYR:CD1	1:G:97:GLY:HA3	2.52	0.44
1:C:83:TYR:CD1	1:C:97:GLY:HA3	2.52	0.44
1:C:12:LEU:HB3	1:C:53:LEU:HB3	1.99	0.44
1:E:98:PRO:HG2	4:E:201:EPE:C8	2.40	0.43
2:H:68:ILE:HD12	2:H:77:TRP:HB3	2.01	0.43
1:E:78:SER:HB3	1:E:83:TYR:OH	2.20	0.42
2:B:55:HIS:CD2	3:B:201:EDO:H21	2.54	0.41
1:E:3:THR:HG21	1:G:19:LYS:HD2	2.01	0.41
1:G:78:SER:HB3	1:G:83:TYR:OH	2.20	0.41
5:G:201:PGE:H62	2:H:106:TRP:HE1	1.86	0.41

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	107/110 (97%)	104 (97%)	3 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	104/110 (94%)	101 (97%)	2 (2%)	1 (1%)	19	4
1	E	109/110 (99%)	106 (97%)	3 (3%)	0	100	100
1	G	107/110 (97%)	105 (98%)	2 (2%)	0	100	100
2	B	110/111 (99%)	108 (98%)	2 (2%)	0	100	100
2	D	106/111 (96%)	103 (97%)	3 (3%)	0	100	100
2	F	111/111 (100%)	109 (98%)	2 (2%)	0	100	100
2	H	109/111 (98%)	105 (96%)	4 (4%)	0	100	100
All	All	863/884 (98%)	841 (98%)	21 (2%)	1 (0%)	56	35

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	109	GLY

5.3.2 Protein sidechains ⓘ

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	89/93 (96%)	88 (99%)	1 (1%)	80	69
1	C	90/93 (97%)	90 (100%)	0	100	100
1	E	92/93 (99%)	92 (100%)	0	100	100
1	G	91/93 (98%)	90 (99%)	1 (1%)	80	69
2	B	97/94 (103%)	96 (99%)	1 (1%)	82	72
2	D	93/94 (99%)	93 (100%)	0	100	100
2	F	98/94 (104%)	98 (100%)	0	100	100
2	H	94/94 (100%)	93 (99%)	1 (1%)	80	69
All	All	744/748 (100%)	740 (100%)	4 (0%)	92	88

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	31	CYS
2	B	93[A]	ARG
1	G	1	LEU
2	H	93[A]	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

9 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	EDO	B	201	-	3,3,3	0.50	0	2,2,2	0.41	0
4	EPE	E	201	-	11,11,15	0.38	0	13,13,20	1.20	2 (15%)
3	EDO	F	201	-	3,3,3	0.46	0	2,2,2	0.28	0
3	EDO	F	202	-	3,3,3	0.66	0	2,2,2	0.52	0
3	EDO	F	203	-	3,3,3	0.53	0	2,2,2	0.47	0
3	EDO	F	204	-	3,3,3	0.47	0	2,2,2	0.38	0
3	EDO	F	205	-	3,3,3	0.54	0	2,2,2	0.38	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	PGE	G	201	-	9,9,9	0.17	0	8,8,8	0.17	0
3	EDO	H	201	-	3,3,3	0.53	0	2,2,2	0.22	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	EDO	B	201	-	-	0/1/1/1	0/0/0/0
4	EPE	E	201	-	-	0/5/15/19	0/1/1/1
3	EDO	F	201	-	-	0/1/1/1	0/0/0/0
3	EDO	F	202	-	-	0/1/1/1	0/0/0/0
3	EDO	F	203	-	-	0/1/1/1	0/0/0/0
3	EDO	F	204	-	-	0/1/1/1	0/0/0/0
3	EDO	F	205	-	-	0/1/1/1	0/0/0/0
5	PGE	G	201	-	-	0/7/7/7	0/0/0/0
3	EDO	H	201	-	-	0/1/1/1	0/0/0/0

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	201	EPE	C6-N1-C9	2.42	115.18	110.88
4	E	201	EPE	C2-N1-C9	2.62	115.54	110.88

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

3 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	201	EDO	2	0
4	E	201	EPE	3	0
5	G	201	PGE	1	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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	109/110 (99%)	0.25	5 (4%)	36	40	10, 21, 44, 55	1 (0%)
1	C	107/110 (97%)	0.20	2 (1%)	70	74	13, 22, 39, 73	0
1	E	109/110 (99%)	0.08	3 (2%)	56	61	9, 19, 39, 59	0
1	G	109/110 (99%)	-0.04	1 (0%)	85	88	12, 19, 36, 56	0
2	B	111/111 (100%)	-0.16	2 (1%)	71	76	8, 12, 27, 61	2 (1%)
2	D	110/111 (99%)	-0.01	1 (0%)	85	88	13, 18, 31, 41	5 (4%)
2	F	111/111 (100%)	-0.17	1 (0%)	85	88	8, 12, 24, 57	2 (1%)
2	H	110/111 (99%)	-0.05	0	100	100	12, 18, 29, 42	2 (1%)
All	All	876/884 (99%)	0.01	15 (1%)	73	77	8, 18, 38, 73	12 (1%)

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	110	LEU	9.2
2	B	110	ALA	4.2
1	E	109	GLY	3.8
1	A	66	GLY	3.7
1	E	67	ASP	3.3
2	B	109	SER	3.3
1	A	50	ASP	3.1
1	E	66	GLY	2.9
1	A	46	ASN	2.4
1	A	49	ARG	2.4
1	A	109	GLY	2.3
1	G	1	LEU	2.1
1	C	1	LEU	2.1
2	D	51	GLY	2.1
2	F	109	SER	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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
4	EPE	E	201	11/15	0.61	0.50	38.42	14,37,41,42	11
3	EDO	F	202	4/4	0.81	0.17	9.51	18,19,22,22	0
5	PGE	G	201	10/10	0.80	0.23	4.85	48,50,50,50	0
3	EDO	B	201	4/4	0.74	0.19	3.70	31,36,37,38	0
3	EDO	F	201	4/4	0.93	0.14	3.28	20,23,27,31	0
3	EDO	F	204	4/4	0.92	0.13	2.24	27,32,35,36	0
3	EDO	F	203	4/4	0.92	0.13	1.38	21,23,27,30	0
3	EDO	H	201	4/4	0.95	0.11	0.65	21,26,29,32	0
3	EDO	F	205	4/4	0.88	0.11	-	34,35,36,36	0

6.5 Other polymers [i](#)

There are no such residues in this entry.