

Full wwPDB X-ray Structure Validation Report (i)

May 21, 2020 – 09:36 pm BST

PDB ID : 2QIB

Title : Crystal structure of tetR-family transcriptional regulator from Streptomyces

coelicolor

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Deposited on : 2007-07-03

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 https://www.wwpdb.org/validation/2017/XrayValidationReportHelp

with specific help available everywhere you see the (i) symbol.

The following versions of software and data (see references (1)) 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

buster-report : 1.1.7 (2018)

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)

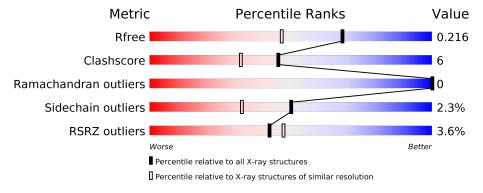
Validation Pipeline (wwPDB-VP) : 2.11

1 Overall quality at a glance (i)

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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
R_{free}	130704	4298 (1.70-1.70)
Clashscore	141614	4695 (1.70-1.70)
Ramachandran outliers	138981	4610 (1.70-1.70)
Sidechain outliers	138945	4610 (1.70-1.70)
RSRZ outliers	127900	4222 (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 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 <=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	231	86%		9% • •		
1	В	231	78%	12%	10%		



2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 4042 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 tetR-family transcriptional regulator.

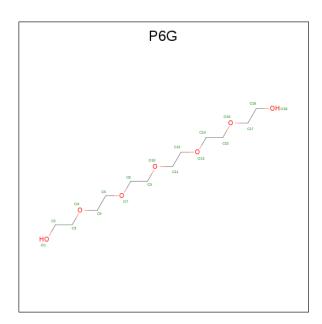
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	222	Total 1720	C 1084	± 1	O 324	Se 5	0	0	0
1	В	208	Total 1628	C 1030	N 290	O 304	Se 4	0	0	0

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MSE	MET	MODIFIED RESIDUE	UNP Q9KZ14
A	9	MSE	MET	MODIFIED RESIDUE	UNP Q9KZ14
A	92	MSE	MET	MODIFIED RESIDUE	UNP Q9KZ14
A	110	MSE	MET	MODIFIED RESIDUE	UNP Q9KZ14
A	190	MSE	MET	MODIFIED RESIDUE	UNP Q9KZ14
A	200	MSE	MET	MODIFIED RESIDUE	UNP Q9KZ14
A	231	GLY	-	EXPRESSION TAG	UNP Q9KZ14
В	1	MSE	MET	MODIFIED RESIDUE	UNP Q9KZ14
В	9	MSE	MET	MODIFIED RESIDUE	UNP Q9KZ14
В	92	MSE	MET	MODIFIED RESIDUE	UNP Q9KZ14
В	110	MSE	MET	MODIFIED RESIDUE	UNP Q9KZ14
В	190	MSE	MET	MODIFIED RESIDUE	UNP Q9KZ14
В	200	MSE	MET	MODIFIED RESIDUE	UNP Q9KZ14
В	231	GLY	=	EXPRESSION TAG	UNP Q9KZ14

• Molecule 2 is HEXAETHYLENE GLYCOL (three-letter code: P6G) (formula: C₁₂H₂₆O₇).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	Λ	1	Total C O	0	0
	A	1	19 12 7	0	U
2	Λ	1	Total C O	0	0
	Α	1	19 12 7	0	0
2	В	1	Total C O	0	0
	Б	1	19 12 7	0	0
2	D	1	Total C O	0	0
	Б	1	18 12 6		U

• Molecule 3 is water.

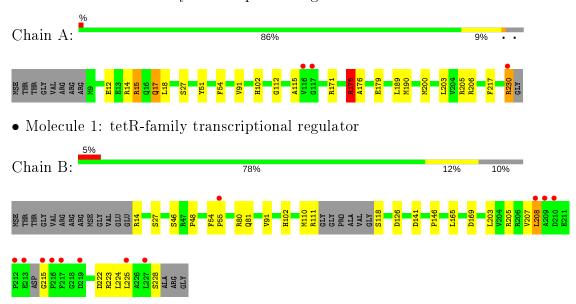
\mathbf{Mol}	Chain	Residues	${f Atoms}$	${f ZeroOcc}$	AltConf
3	A	337	Total O 337 337	0	0
3	В	282	Total O 282 282	0	0



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: tetR-family transcriptional regulator





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	54.61Å 76.29Å 65.26Å	Depositor
a, b, c, α , β , γ	90.00° 107.54° 90.00°	Depositor
Resolution (Å)	62.26 - 1.70	Depositor
Resolution (A)	47.62 - 1.70	EDS
% Data completeness	99.1 (62.26-1.70)	Depositor
(in resolution range)	99.1 (47.62-1.70)	EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.93 (at 1.70Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
P. P.	0.177 , 0.214	Depositor
R, R_{free}	0.177 , 0.216	DCC
R_{free} test set	2832 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å ²)	21.6	Xtriage
Anisotropy	0.474	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.35, 45.8	EDS
L-test for twinning ²	$ < L > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4042	wwPDB-VP
Average B, all atoms (Å ²)	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.32% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $< L^2>$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



¹Intensities estimated from amplitudes.

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: P6G

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		
MIOI	Chain	RMSZ	# Z >5	RMSZ	# Z > 5	
1	A	0.69	0/1749	0.76	3/2368 (0.1%)	
1	В	0.67	0/1654	0.67	0/2237	
All	All	0.68	0/3403	0.72	3/4605 (0.1%)	

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^o)$
1	A	175	ARG	NE-CZ-NH1	-10.76	114.92	120.30
1	A	175	ARG	NE-CZ-NH2	8.33	124.46	120.30
1	A	15	ARG	NE-CZ-NH1	-5.37	117.62	120.30

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	1720	0	1710	21	0
1	В	1628	0	1623	25	0
2	A	38	0	52	1	0
2	В	37	0	49	4	0
3	A	337	0	0	8	2
3	В	282	0	0	14	2

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	4042	0	3434	44	2

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 6.

All (44) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom 1	Atom 2	Interatomic	Clash
Atom-1	Atom-2	${f distance}({f \AA})$	overlap (Å)
1:B:110:MSE:SE	3:B:940:HOH:O	2.29	1.00
1:A:12:GLU:OE1	1:A:15:ARG:NH1	2.04	0.90
1:A:12:GLU:CD	1:A:15:ARG:HH12	1.79	0.84
1:A:112:GLY:O	3:A:1040:HOH:O	1.98	0.82
1:A:175:ARG:HD3	1:A:179:GLU:OE2	1.86	0.75
1:A:230:ARG:NH2	1:B:222:ASP:OD1	2.21	0.72
1:B:223:ARG:HB3	3:B:981:HOH:O	1.94	0.68
1:B:126:ASP:OD1	3:B:928:HOH:O	2.12	0.67
1:B:110:MSE:HE3	2:B:702:P6G:H92	1.77	0.66
1:A:189:LEU:HD13	3:A:918:HOH:O	1.95	0.65
1:B:146:PRO:HB2	3:B:983:HOH:O	1.98	0.64
1:A:14:ARG:HH11	1:A:17:GLN:HE22	1.44	0.63
1:A:91:VAL:HG21	2:A:703:P6G:H152	1.80	0.62
1:B:110:MSE:CE	2:B:702:P6G:H92	2.30	0.62
1:A:115:ALA:HB3	3:A:1040:HOH:O	1.99	0.61
1:A:217:PHE:HE2	1:B:228:SER:HB3	1.65	0.61
1:B:165:LEU:HD22	3:B:977:HOH:O	2.01	0.60
1:B:14:ARG:N	3:B:866:HOH:O	2.36	0.58
1:B:91:VAL:HG21	2:B:704:P6G:H51	1.86	0.57
1:B:111:ARG:NH2	3:B:970:HOH:O	2.33	0.56
1:A:205:ARG:HD3	3:A:925:HOH:O	2.06	0.55
1:B:205:ARG:HA	1:B:208:LEU:HG	1.89	0.55
1:B:111:ARG:HG3	3:B:977:HOH:O	2.10	0.52
1:A:175:ARG:HD2	3:A:965:HOH:O	2.09	0.52
1:A:206:ARG:NH2	3:A:990:HOH:O	2.45	0.49
1:A:175:ARG:HG3	1:A:176:ALA:N	2.29	0.47
1:B:118:SER:N	3:B:949:HOH:O	2.46	0.47
1:A:190:MSE:SE	1:A:200:MSE:HE1	2.65	0.46
1:B:215:GLY:N	3:B:952:HOH:O	2.48	0.46
1:A:14:ARG:HH11	1:A:17:GLN:NE2	2.12	0.46
1:B:169:ASP:HB2	3:B:970:HOH:O	2.16	0.46
1:A:171:ARG:NH2	3:A:975:HOH:O	2.49	0.45
1:B:203:LEU:HD23	1:B:203:LEU:C	2.37	0.44

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Atom-1	Atom-2	$egin{array}{c} ext{Interatomic} \ ext{distance } (ext{Å}) \end{array}$	Clash overlap (Å)
1:B:81:GLN:HG2	3:B:974:HOH:O	2.17	0.44
1:B:27:SER:OG	1:B:102:HIS:HD2	2.01	0.44
1:B:46:SER:HB2	1:B:48:PRO:HD2	2.00	0.43
1:A:15:ARG:HD3	3:A:1017:HOH:O	2.18	0.43
1:A:51:TYR:HA	1:A:54:PHE:O	2.20	0.41
1:B:207:VAL:HG12	3:B:982:HOH:O	2.19	0.41
1:A:203:LEU:CD1	1:A:206:ARG:NH2	2.83	0.41
1:B:80:ARG:HD3	3:B:907:HOH:O	2.21	0.41
1:B:91:VAL:HG11	2:B:704:P6G:H32	2.02	0.40
1:A:27:SER:OG	1:A:102:HIS:HD2	2.04	0.40
1:B:54:PHE:HA	1:B:55:PRO:HD2	1.96	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} ({\rm \AA}) \end{array}$	$egin{aligned} ext{Clash} \ ext{overlap } (ext{Å}) \end{aligned}$
3:A:1030:HOH:O	3:B:984:HOH:O[2_555]	1.98	0.22
3:A:857:HOH:O	3:B:723:HOH:O[2_555]	2.17	0.03

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	Perce	$_{ m ntiles}$
1	A	$220/231 \; (95\%)$	220 (100%)	0	0	100	100
1	В	202/231 (87%)	201 (100%)	1 (0%)	0	100	100
All	All	422/462 (91%)	421 (100%)	1 (0%)	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	179/180 (99%)	175 (98%)	4 (2%)	52 34
1	В	171/180 (95%)	167 (98%)	4 (2%)	50 33
All	All	350/360 (97%)	342 (98%)	8 (2%)	50 33

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	17	GLN
1	A	18	LEU
1	A	175	ARG
1	A	230	ARG
1	В	141	ASP
1	В	208	LEU
1	В	224	LEU
1	В	225	LEU

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	17	GLN
1	A	66	GLN
1	A	81	GLN
1	A	102	HIS
1	В	102	HIS
1	В	184	HIS

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)

4 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	Tuno	Chain	Res	Link	Во	ond leng	ths	В	ond ang	les
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	P6G	A	703	_	18,18,18	0.77	0	17,17,17	0.96	1 (5%)
2	P6G	В	702	-	18,18,18	0.46	0	17,17,17	0.40	0
2	P6G	В	704	-	17,17,18	0.48	0	16,16,17	0.65	0
2	P6G	A	701	-	18,18,18	0.61	0	17,17,17	0.78	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	P6G	A	703	-	-	6/16/16/16	-
2	P6G	В	702	-	-	11/16/16/16	-
2	P6G	В	704	-	-	7/15/15/16	-
2	P6G	A	701	-	-	5/16/16/16	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^o)$
2	A	703	P6G	O10-C11-C12	2.34	120.96	110.39

There are no chirality outliers.

All (29) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	701	P6G	O13-C14-C15-O16
2	В	702	P6G	O7-C8-C9-O10
2	В	702	P6G	O10-C11-C12-O13
2	В	702	P6G	O4-C5-C6-O7
2	A	703	P6G	C14-C15-O16-C17
2	A	703	P6G	O10-C11-C12-O13
2	В	702	P6G	O1-C2-C3-O4
2	В	704	P6G	O13-C14-C15-O16
2	В	704	P6G	O1-C2-C3-O4
2	A	701	P6G	O1-C2-C3-O4
2	A	701	P6G	O10-C11-C12-O13
2	В	702	P6G	O13-C14-C15-O16
2	В	702	P6G	O16-C17-C18-O19
2	A	703	P6G	C8-C9-O10-C11
2	В	702	P6G	C5-C6-O7-C8
2	В	704	P6G	C8-C9-O10-C11
2	В	702	P6G	C6-C5-O4-C3
2	В	702	P6G	C11-C12-O13-C14
2	В	704	P6G	C14-C15-O16-C17
2	В	702	P6G	C2-C3-O4-C5
2	В	702	P6G	C8-C9-O10-C11
2	A	701	P6G	C15-C14-O13-C12
2	A	701	P6G	O7-C8-C9-O10
2	В	704	P6G	C2-C3-O4-C5
2	A	703	P6G	O4-C5-C6-O7
2	В	704	P6G	C18-C17-O16-C15
2	В	704	P6G	O10-C11-C12-O13
2	A	703	P6G	O1-C2-C3-O4
2	A	703	P6G	O7-C8-C9-O10

There are no ring outliers.

3 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	703	P6G	1	0
2	В	702	P6G	2	0

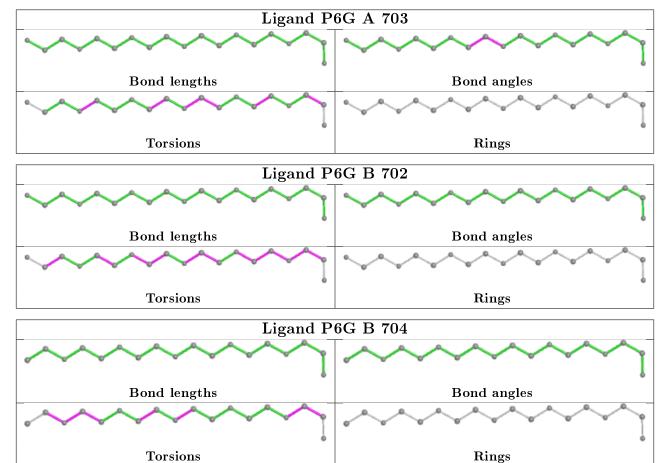
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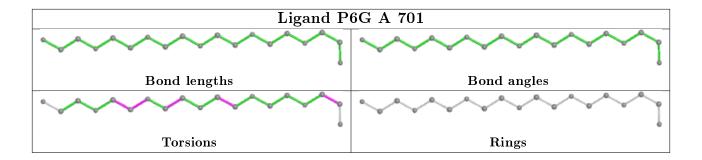
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	704	P6G	2	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.







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 $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(Å^2)$	Q < 0.9
1	A	217/231 (93%)	-0.15	3 (1%) 75 79	14, 20, 36, 45	0
1	В	204/231~(88%)	0.08	12 (5%) 22 24	15, 22, 46, 74	0
All	All	421/462 (91%)	-0.04	15 (3%) 42 47	14, 21, 44, 74	0

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	213	GLU	6.8
1	A	116	VAL	6.0
1	В	217	PHE	4.9
1	A	117	GLY	4.4
1	В	212	PRO	4.1
1	В	209	ALA	3.6
1	В	208	LEU	3.5
1	В	225	LEU	3.2
1	В	227	LEU	3.0
1	В	55	PRO	2.7
1	В	219	ASP	2.6
1	В	216	PRO	2.6
1	В	215	GLY	2.3
1	В	210	ASP	2.3
1	A	230	ARG	2.2

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.

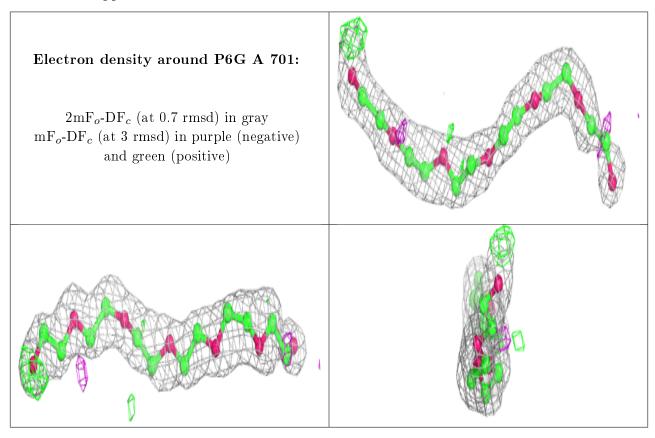


6.4 Ligands (i)

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, 95^{th} 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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
2	P6G	A	701	19/19	0.81	0.14	35,42,44,45	0
2	P6G	В	702	19/19	0.84	0.12	42,45,49,49	0
2	P6G	В	704	18/19	0.84	0.14	31,37,51,51	0
2	P6G	A	703	19/19	0.84	0.12	23,29,35,36	0

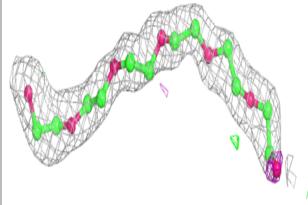
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

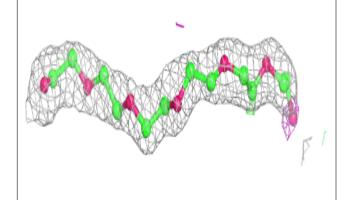


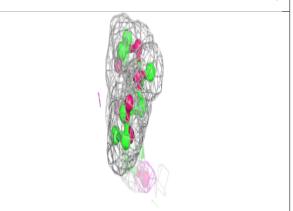


Electron density around P6G B 702:

 $2 \mathrm{mF}_o\text{-DF}_c$ (at 0.7 rmsd) in gray $\mathrm{mF}_o\text{-DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)

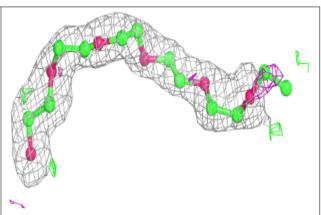


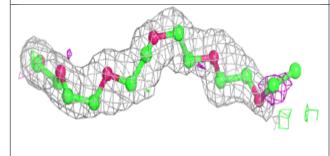


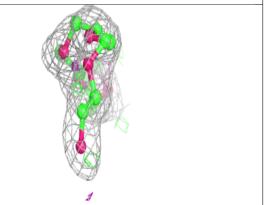


Electron density around P6G B 704:

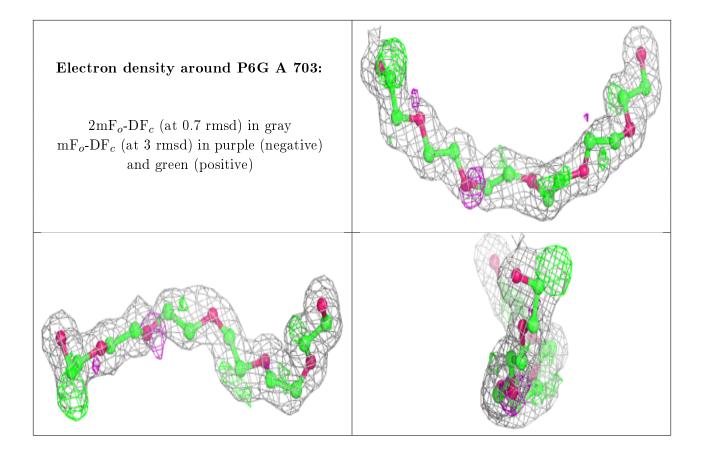
 $2 \text{mF}_o\text{-DF}_c$ (at 0.7 rmsd) in gray $\text{mF}_o\text{-DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)











6.5 Other polymers (i)

There are no such residues in this entry.

