



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 21, 2024 – 06:16 pm GMT

PDB ID : 8QB1
Title : C-terminal domain of mirolase from *Tannerella forsythia*
Authors : Gomis-Ruth, F.X.; Rodriguez-Banqueri, A.; Mizgalska, D.; Veillard, F.; Goulas, T.; Eckhard, U.; Potempa, J.
Deposited on : 2023-08-23
Resolution : 1.60 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 types of validation reports are described at

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

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

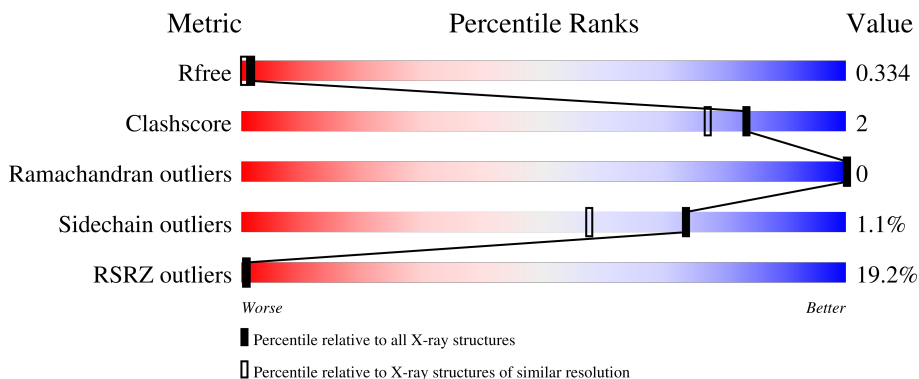
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.60 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.



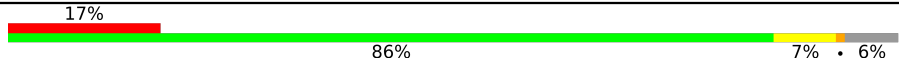
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	3398 (1.60-1.60)
Clashscore	141614	3665 (1.60-1.60)
Ramachandran outliers	138981	3564 (1.60-1.60)
Sidechain outliers	138945	3563 (1.60-1.60)
RSRZ outliers	127900	3321 (1.60-1.60)

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 ≥ 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	88	 13% 97%
1	B	88	 27% 90% 10%
1	C	88	 13% 88% 6% 6%
1	D	88	 16% 97%
1	E	88	 24% 92% 8%

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Mol	Chain	Length	Quality of chain
1	F	88	 <p>A horizontal bar chart representing the quality of chain. The bar is divided into four segments: a red segment at the beginning labeled '17%', a large green segment labeled '86%', a yellow segment labeled '7%', and a grey segment at the end labeled '6%'.</p>

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 4653 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 Mirolase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	Se			
1	A	88	692	440	116	132	4	0	1	0
1	B	88	700	447	116	133	4	0	3	0
1	C	83	655	418	109	124	4	0	1	0
1	D	88	692	440	116	132	4	0	1	0
1	E	88	695	442	116	133	4	0	2	0
1	F	83	658	419	110	125	4	0	1	0

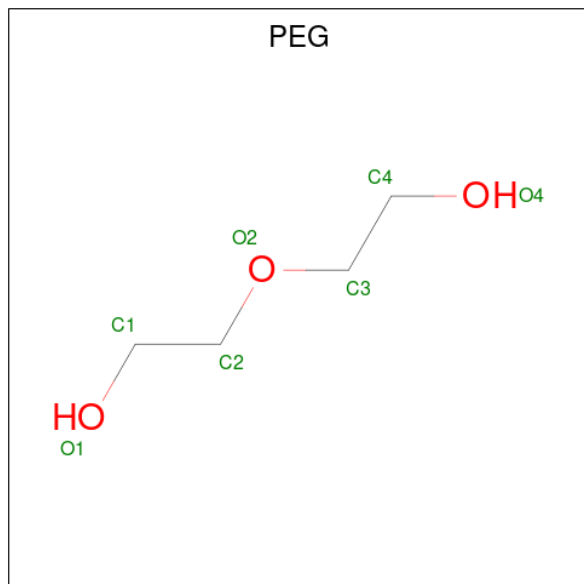
There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP A0A0A7KVG3
A	-1	SER	-	expression tag	UNP A0A0A7KVG3
B	-2	GLY	-	expression tag	UNP A0A0A7KVG3
B	-1	SER	-	expression tag	UNP A0A0A7KVG3
C	-2	GLY	-	expression tag	UNP A0A0A7KVG3
C	-1	SER	-	expression tag	UNP A0A0A7KVG3
D	-2	GLY	-	expression tag	UNP A0A0A7KVG3
D	-1	SER	-	expression tag	UNP A0A0A7KVG3
E	-2	GLY	-	expression tag	UNP A0A0A7KVG3
E	-1	SER	-	expression tag	UNP A0A0A7KVG3
F	-2	GLY	-	expression tag	UNP A0A0A7KVG3
F	-1	SER	-	expression tag	UNP A0A0A7KVG3

- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Cl 1 1	0	0
2	B	1	Total Cl 1 1	0	0
2	C	1	Total Cl 1 1	0	0
2	D	1	Total Cl 1 1	0	0
2	E	1	Total Cl 1 1	0	0
2	F	1	Total Cl 1 1	0	0

- Molecule 3 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 7 4 3	0	0
3	B	1	Total C O 7 4 3	0	0
3	C	1	Total C O 7 4 3	0	0
3	D	1	Total C O 7 4 3	0	0
3	E	1	Total C O 7 4 3	0	0
3	F	1	Total C O 7 4 3	0	0

- Molecule 4 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	B	1	Total K 1 1	0	0
4	E	1	Total K 1 1	0	0

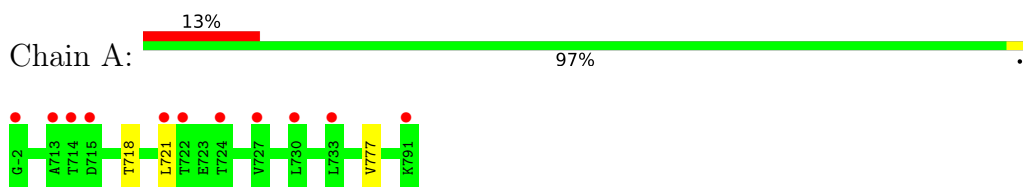
- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	82	Total O 88 88	0	6
5	B	89	Total O 99 99	0	10
5	C	73	Total O 80 80	0	7
5	D	74	Total O 78 78	0	4
5	E	83	Total O 88 88	0	5
5	F	75	Total O 78 78	0	3

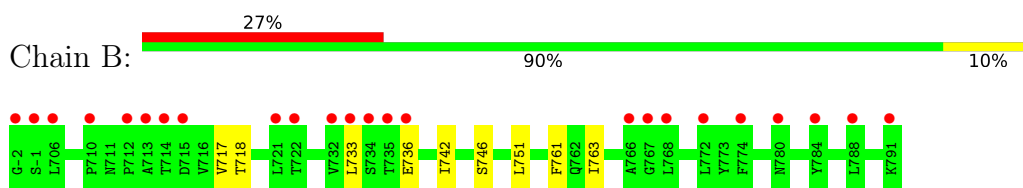
3 Residue-property plots [i](#)

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.

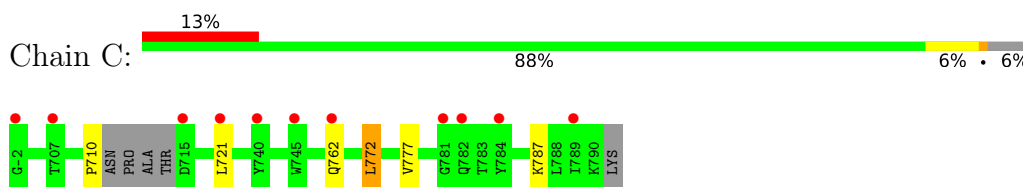
- Molecule 1: Mirolase



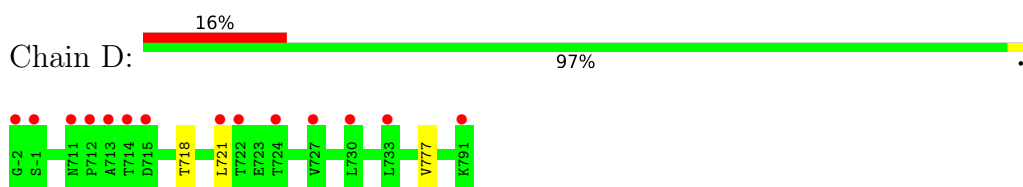
- Molecule 1: Mirolase



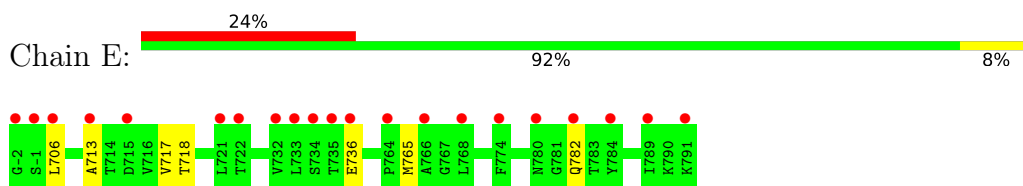
- Molecule 1: Mirolase




- Molecule 1: Mirolase

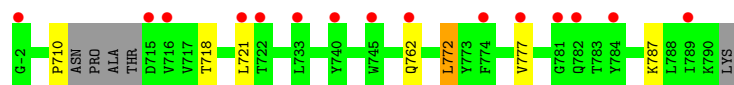


- Molecule 1: Mirolase



- Molecule 1: Mirolase

Chain F:  17% 86% 7% • 6%



4 Data and refinement statistics i

Property	Value	Source
Space group	P 31	Depositor
Cell constants a, b, c, α , β , γ	81.44Å 81.44Å 66.55Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	48.41 – 1.60 48.41 – 1.60	Depositor EDS
% Data completeness (in resolution range)	99.7 (48.41-1.60) 99.8 (48.41-1.60)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.80 (at 1.60Å)	Xtrriage
Refinement program	BUSTER 2.10.3	Depositor
R, R_{free}	0.275 , 0.302 0.294 , 0.334	Depositor DCC
R_{free} test set	656 reflections (1.01%)	wwPDB-VP
Wilson B-factor (Å ²)	14.4	Xtrriage
Anisotropy	0.091	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 47.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.53$, $\langle L^2 \rangle = 0.37$	Xtrriage
Estimated twinning fraction	0.000 for -h,-k,l 0.478 for h,-h-k,-l 0.000 for -k,-h,-l	Xtrriage
Reported twinning fraction	0.423 for h,-h-k,-l	Depositor
Outliers	0 of 65076 reflections	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4653	wwPDB-VP
Average B, all atoms (Å ²)	21.0	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 72.09 % 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 2.3441e-06. 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: PEG, CL, K

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	0/704	0.58	0/948
1	B	0.47	0/718	0.61	0/968
1	C	0.39	0/665	0.56	0/894
1	D	0.43	0/704	0.59	0/948
1	E	0.47	0/710	0.60	0/956
1	F	0.38	0/665	0.57	0/894
All	All	0.42	0/4166	0.58	0/5608

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 [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	692	0	715	2	0
1	B	700	0	731	7	0
1	C	655	0	676	4	0
1	D	692	0	715	2	0
1	E	695	0	720	5	0
1	F	658	0	675	5	0
2	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
2	E	1	0	0	0	0
2	F	1	0	0	0	0
3	A	7	0	10	0	0
3	B	7	0	10	0	0
3	C	7	0	10	0	0
3	D	7	0	10	0	0
3	E	7	0	10	0	0
3	F	7	0	10	0	0
4	B	1	0	0	0	0
4	E	1	0	0	0	0
5	A	88	0	0	0	0
5	B	99	0	0	0	0
5	C	80	0	0	0	0
5	D	78	0	0	0	0
5	E	88	0	0	0	0
5	F	78	0	0	1	0
All	All	4653	0	4292	20	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 (20) 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:F:718:THR:HG23	5:F:912:HOH:O	1.99	0.62
1:B:736:GLU:HG3	1:C:710:PRO:HB2	1.82	0.61
1:E:736:GLU:HG3	1:F:710:PRO:HB2	1.83	0.60
1:E:713:ALA:HB1	1:E:717:VAL:HG22	1.84	0.60
1:D:718:THR:HG21	1:E:718:THR:HG21	1.84	0.58
1:C:721:LEU:HD11	1:C:777:VAL:HG11	1.87	0.57
1:A:718:THR:HG21	1:B:718:THR:HG21	1.85	0.56
1:F:721:LEU:HD11	1:F:777:VAL:HG11	1.88	0.56
1:E:713:ALA:HB1	1:E:717:VAL:CG2	2.39	0.52
1:F:772:LEU:HD11	1:F:787:LYS:HD2	1.94	0.50
1:C:762:GLN:HG3	1:F:762:GLN:HE22	1.77	0.48
1:C:772:LEU:HD11	1:C:787:LYS:HD2	1.97	0.47
1:E:717:VAL:HG23	1:E:765:MSE:HG3	1.97	0.46
1:A:721:LEU:HD11	1:A:777:VAL:HG11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:721:LEU:HD11	1:D:777:VAL:HG11	2.00	0.44
1:B:761:PHE:CD2	1:B:763[B]:ILE:HD13	2.53	0.44
1:B:746:SER:HB3	1:B:751:LEU:HD11	1.99	0.43
1:B:761:PHE:HD2	1:B:763[B]:ILE:HD13	1.84	0.42
1:B:742:ILE:HG21	1:B:763[B]:ILE:HD12	2.02	0.41
1:B:717:VAL:HG12	1:B:763[B]:ILE:HB	2.03	0.41

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	87/88 (99%)	86 (99%)	1 (1%)	0	100	100
1	B	89/88 (101%)	86 (97%)	3 (3%)	0	100	100
1	C	80/88 (91%)	80 (100%)	0	0	100	100
1	D	87/88 (99%)	86 (99%)	1 (1%)	0	100	100
1	E	88/88 (100%)	85 (97%)	3 (3%)	0	100	100
1	F	80/88 (91%)	80 (100%)	0	0	100	100
All	All	511/528 (97%)	503 (98%)	8 (2%)	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	79/75 (105%)	79 (100%)	0	100	100
1	B	81/75 (108%)	80 (99%)	1 (1%)	71	54
1	C	75/75 (100%)	74 (99%)	1 (1%)	69	50
1	D	79/75 (105%)	79 (100%)	0	100	100
1	E	80/75 (107%)	78 (98%)	2 (2%)	47	22
1	F	75/75 (100%)	74 (99%)	1 (1%)	69	50
All	All	469/450 (104%)	464 (99%)	5 (1%)	73	57

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

Mol	Chain	Res	Type
1	B	733	LEU
1	C	772	LEU
1	E	706	LEU
1	E	782	GLN
1	F	772	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	D	782	GLN
1	F	762	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

Of 14 ligands modelled in this entry, 8 are monoatomic - leaving 6 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	PEG	B	803	-	6,6,6	0.11	0	5,5,5	0.06	0
3	PEG	A	802	-	6,6,6	0.10	0	5,5,5	0.06	0
3	PEG	C	802	-	6,6,6	0.10	0	5,5,5	0.13	0
3	PEG	E	803	-	6,6,6	0.11	0	5,5,5	0.08	0
3	PEG	F	802	-	6,6,6	0.11	0	5,5,5	0.10	0
3	PEG	D	802	-	6,6,6	0.05	0	5,5,5	0.07	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	PEG	B	803	-	-	0/4/4/4	-
3	PEG	A	802	-	-	1/4/4/4	-
3	PEG	C	802	-	-	0/4/4/4	-
3	PEG	E	803	-	-	0/4/4/4	-
3	PEG	F	802	-	-	1/4/4/4	-
3	PEG	D	802	-	-	0/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	802	PEG	O1-C1-C2-O2
3	F	802	PEG	O1-C1-C2-O2

There are no ring outliers.

No monomer is involved in short contacts.

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	85/88 (96%)	0.74	11 (12%) 3 2	9, 16, 32, 37	0
1	B	85/88 (96%)	1.63	24 (28%) 0 0	11, 23, 37, 43	0
1	C	80/88 (90%)	1.09	11 (13%) 2 2	12, 22, 36, 43	0
1	D	85/88 (96%)	0.86	14 (16%) 1 1	8, 16, 31, 39	0
1	E	85/88 (96%)	1.61	21 (24%) 0 0	11, 22, 37, 43	0
1	F	80/88 (90%)	1.09	15 (18%) 1 1	13, 21, 36, 43	0
All	All	500/528 (94%)	1.17	96 (19%) 1 1	8, 21, 36, 43	0

All (96) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	722	THR	7.4
1	E	713	ALA	6.9
1	E	722	THR	6.7
1	B	734	SER	6.6
1	E	734	SER	6.1
1	B	733	LEU	5.6
1	C	781	GLY	5.5
1	F	-2	GLY	5.3
1	C	-2	GLY	5.2
1	A	721	LEU	5.2
1	E	733	LEU	5.1
1	B	736	GLU	5.0
1	D	721	LEU	4.9
1	E	706	LEU	4.8
1	D	791	LYS	4.8
1	B	735	THR	4.7
1	C	721	LEU	4.7
1	C	784	TYR	4.6
1	E	735	THR	4.5

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Mol	Chain	Res	Type	RSRZ
1	F	782	GLN	4.5
1	A	714	THR	4.5
1	D	-2	GLY	4.5
1	E	736	GLU	4.4
1	D	713	ALA	4.4
1	E	-2	GLY	4.4
1	A	733	LEU	4.2
1	A	-2	GLY	4.2
1	A	713	ALA	4.2
1	C	715	ASP	4.1
1	F	784	TYR	4.1
1	B	721	LEU	4.0
1	D	714	THR	4.0
1	B	706	LEU	4.0
1	E	784	TYR	4.0
1	F	721	LEU	3.9
1	B	766	ALA	3.8
1	D	730	LEU	3.7
1	F	781	GLY	3.7
1	B	784	TYR	3.6
1	B	-1	SER	3.5
1	B	-2	GLY	3.5
1	E	766	ALA	3.5
1	E	-1	SER	3.3
1	D	727	VAL	3.2
1	B	712	PRO	3.2
1	C	789	ILE	3.1
1	A	722	THR	3.1
1	D	733	LEU	3.1
1	E	721	LEU	3.1
1	A	791	LYS	3.1
1	F	715	ASP	3.1
1	D	722	THR	3.1
1	B	713	ALA	3.0
1	B	791	LYS	2.9
1	C	782	GLN	2.9
1	E	791	LYS	2.8
1	B	767	GLY	2.8
1	F	716	VAL	2.7
1	E	774	PHE	2.6
1	F	777	VAL	2.6
1	F	745	TRP	2.6

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Mol	Chain	Res	Type	RSRZ
1	C	762	GLN	2.6
1	D	712	PRO	2.5
1	A	715	ASP	2.5
1	F	740	TYR	2.4
1	B	715	ASP	2.4
1	A	727	VAL	2.4
1	E	789	ILE	2.4
1	E	768	LEU	2.4
1	D	724	THR	2.4
1	B	788	LEU	2.4
1	B	774	PHE	2.4
1	F	774	PHE	2.4
1	E	764	PRO	2.4
1	C	745	TRP	2.4
1	D	-1	SER	2.3
1	C	707	THR	2.3
1	F	722	THR	2.3
1	D	715	ASP	2.3
1	B	768	LEU	2.3
1	B	714	THR	2.3
1	C	740	TYR	2.3
1	E	780	ASN	2.3
1	E	732	VAL	2.2
1	E	782	GLN	2.2
1	D	711	ASN	2.2
1	F	762	GLN	2.1
1	B	780	ASN	2.1
1	B	772	LEU	2.1
1	F	789	ILE	2.1
1	A	730	LEU	2.1
1	F	733	LEU	2.1
1	B	710	PRO	2.1
1	E	715	ASP	2.0
1	B	732	VAL	2.0
1	A	724	THR	2.0

6.2 Non-standard residues in protein, DNA, RNA chains

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, 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(Å ²)	Q<0.9
3	PEG	E	803	7/7	0.77	0.15	36,36,36,36	0
3	PEG	B	803	7/7	0.79	0.15	38,39,39,39	0
3	PEG	C	802	7/7	0.82	0.14	36,36,36,36	0
3	PEG	F	802	7/7	0.84	0.14	32,32,33,33	0
3	PEG	D	802	7/7	0.86	0.14	25,25,26,26	0
3	PEG	A	802	7/7	0.90	0.15	24,25,26,26	0
4	K	B	802	1/1	0.90	0.17	27,27,27,27	1
4	K	E	802	1/1	0.97	0.14	23,23,23,23	1
2	CL	E	801	1/1	0.98	0.05	18,18,18,18	0
2	CL	B	801	1/1	0.98	0.07	18,18,18,18	0
2	CL	C	801	1/1	0.98	0.07	18,18,18,18	0
2	CL	F	801	1/1	0.99	0.03	14,14,14,14	1
2	CL	D	801	1/1	0.99	0.07	15,15,15,15	0
2	CL	A	801	1/1	0.99	0.10	16,16,16,16	0

6.5 Other polymers [i](#)

There are no such residues in this entry.