



wwPDB X-ray Structure Validation Summary Report ⓘ

May 23, 2020 – 02:11 am BST

PDB ID : 6Q3M
Title : Structure of CHD4 PHD2 - tandem chromodomains
Authors : Alt, A.; Mancini, E.J.
Deposited on : 2018-12-04
Resolution : 2.52 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 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 : 2.11
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

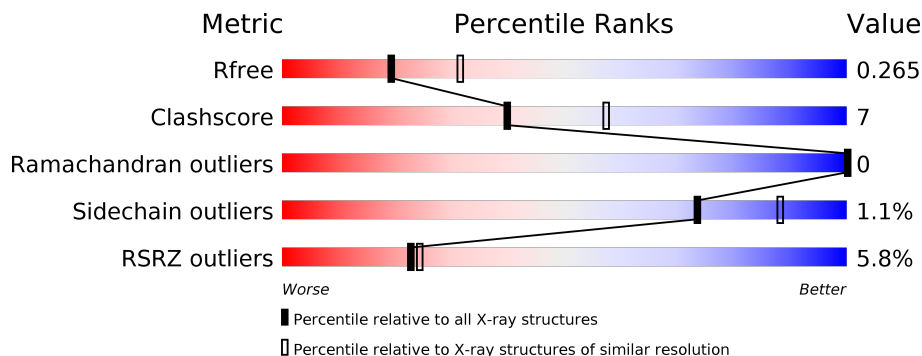
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.52 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	5743 (2.54-2.50)
Clashscore	141614	6463 (2.54-2.50)
Ramachandran outliers	138981	6335 (2.54-2.50)
Sidechain outliers	138945	6337 (2.54-2.50)
RSRZ outliers	127900	5630 (2.54-2.50)

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 $\leq 5\%$. 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	238	 4% 78% 12% 9%
1	B	238	 5% 77% 12% 10%
1	C	238	 5% 76% 15% 8%
1	D	238	 8% 70% 13% 16%

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 crite-

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	EDO	B	705	-	-	-	X

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 14178 atoms, of which 6721 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 Chromodomain-helicase-DNA-binding protein 4.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
1	A	216	3493	1156	1684	315	320	18	0	0	0
1	B	214	3433	1147	1641	313	314	18	0	0	0
1	C	219	3505	1175	1667	319	325	19	0	0	0
1	D	199	3188	1074	1507	292	297	18	0	0	0

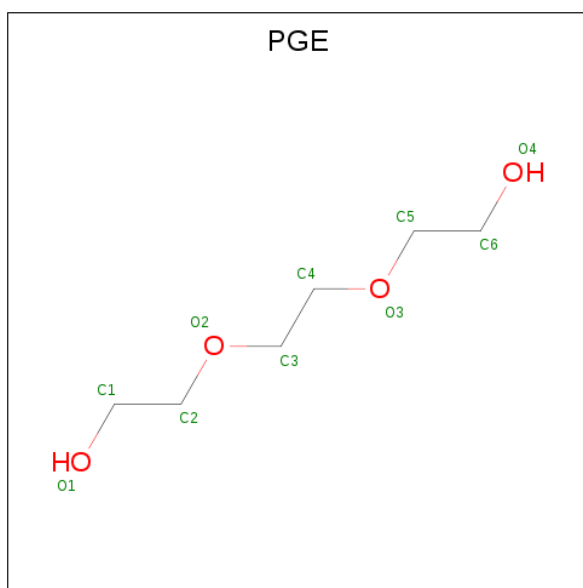
There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	442	GLY	-	expression tag	UNP Q14839
A	443	PRO	-	expression tag	UNP Q14839
B	442	GLY	-	expression tag	UNP Q14839
B	443	PRO	-	expression tag	UNP Q14839
C	442	GLY	-	expression tag	UNP Q14839
C	443	PRO	-	expression tag	UNP Q14839
D	442	GLY	-	expression tag	UNP Q14839
D	443	PRO	-	expression tag	UNP Q14839

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	2	Total	Zn	0	0
			2	2		
2	A	2	Total	Zn	0	0
			2	2		
2	D	2	Total	Zn	0	0
			2	2		
2	C	2	Total	Zn	0	0
			2	2		

- Molecule 3 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: C₆H₁₄O₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
3	A	1	24	6	14	4	0	0
3	A	1	24	6	14	4	0	0
3	A	1	24	6	14	4	0	0
3	B	1	24	6	14	4	0	0
3	C	1	24	6	14	4	0	0

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



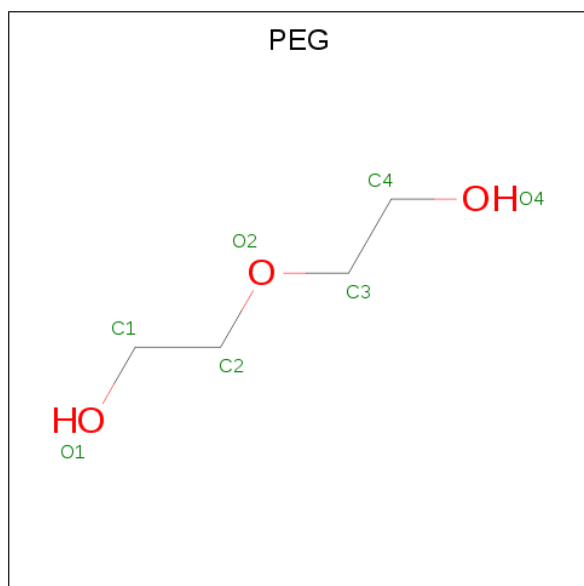
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	B	1	Total	C	H	O	0	0
			10	2	6	2		
4	B	1	Total	C	H	O	0	0
			10	2	6	2		
4	B	1	Total	C	H	O	0	0
			10	2	6	2		
4	B	1	Total	C	H	O	0	0
			10	2	6	2		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	B	1	Total	C	H	O	0	0
			10	2	6	2		
4	C	1	Total	C	H	O	0	0
			10	2	6	2		
4	C	1	Total	C	H	O	0	0
			10	2	6	2		
4	C	1	Total	C	H	O	0	0
			10	2	6	2		
4	C	1	Total	C	H	O	0	0
			10	2	6	2		
4	D	1	Total	C	H	O	0	0
			10	2	6	2		
4	D	1	Total	C	H	O	0	0
			10	2	6	2		

- Molecule 5 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: C₄H₁₀O₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	H	O	0	0
			17	4	10	3		
5	C	1	Total	C	H	O	0	0
			17	4	10	3		

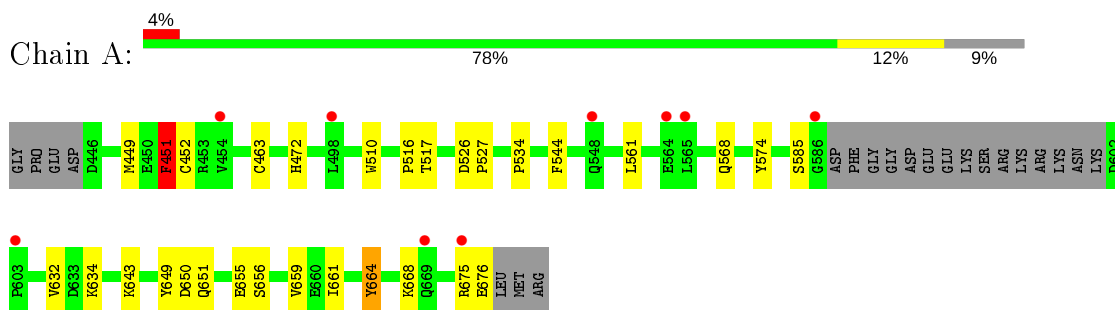
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	71	Total 71	O 71	0	0
6	B	48	Total 48	O 48	0	0
6	C	25	Total 25	O 25	0	0
6	D	33	Total 33	O 33	0	0

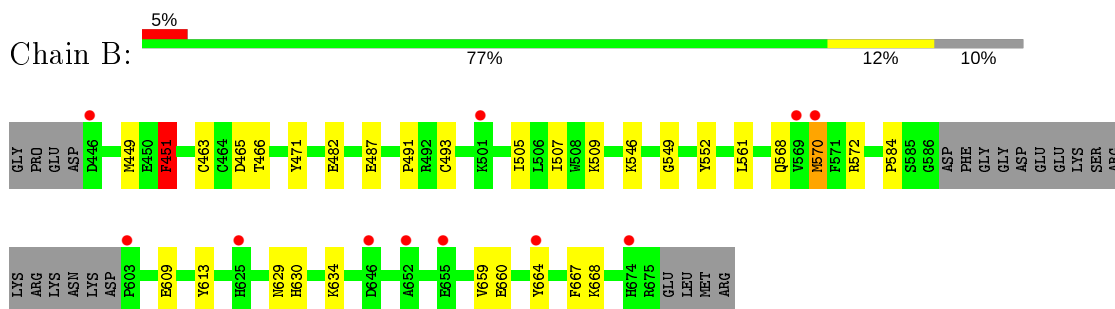
3 Residue-property plots [i](#)

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.

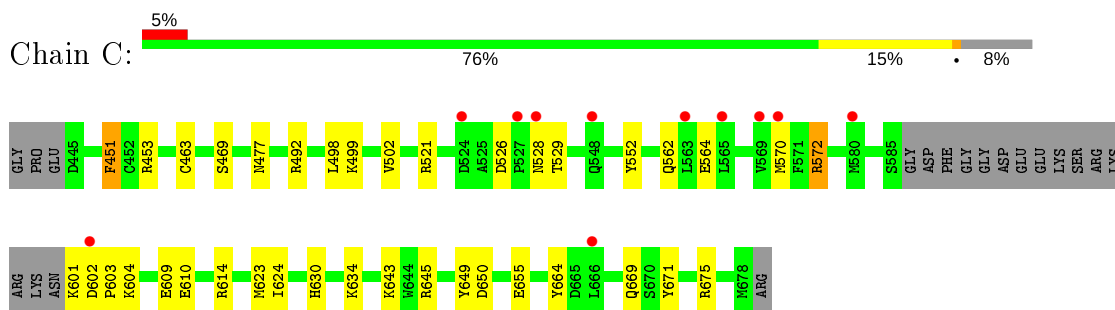
- Molecule 1: Chromodomain-helicase-DNA-binding protein 4



- Molecule 1: Chromodomain-helicase-DNA-binding protein 4

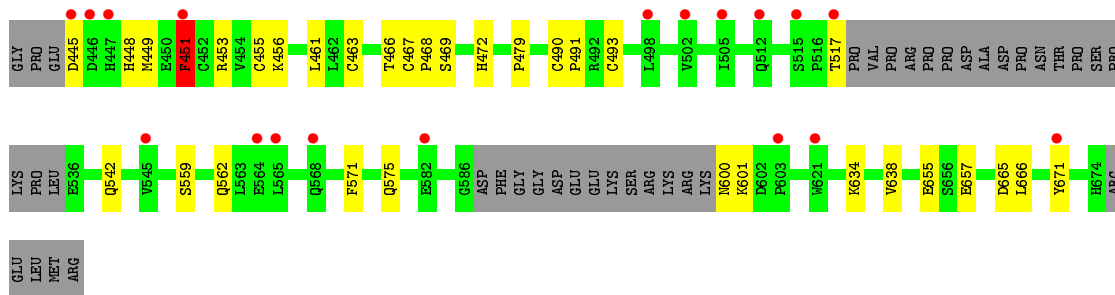


- Molecule 1: Chromodomain-helicase-DNA-binding protein 4



- Molecule 1: Chromodomain-helicase-DNA-binding protein 4





4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	70.73Å 87.68Å 129.26Å 90.00° 93.57° 90.00°	Depositor
Resolution (Å)	64.50 – 2.52 72.52 – 2.52	Depositor EDS
% Data completeness (in resolution range)	98.3 (64.50-2.52) 99.3 (72.52-2.52)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.71 (at 2.51Å)	Xtrriage
Refinement program	PHENIX (1.14_3260: ???)	Depositor
R, R_{free}	0.230 , 0.263 0.230 , 0.265	Depositor DCC
R_{free} test set	2574 reflections (4.85%)	wwPDB-VP
Wilson B-factor (Å ²)	52.5	Xtrriage
Anisotropy	0.306	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 38.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	14178	wwPDB-VP
Average B, all atoms (Å ²)	67.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.21% 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: ZN, PEG, 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	0.28	0/1878	0.54	2/2554 (0.1%)
1	B	0.28	0/1861	0.52	2/2530 (0.1%)
1	C	0.27	0/1907	0.50	0/2592
1	D	0.26	0/1741	0.52	2/2358 (0.1%)
All	All	0.27	0/7387	0.52	6/10034 (0.1%)

There are no bond length outliers.

The worst 5 of 6 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	451	PHE	CB-CG-CD2	-7.67	115.43	120.80
1	A	451	PHE	CB-CG-CD1	7.66	126.16	120.80
1	B	451	PHE	CB-CG-CD2	-7.24	115.73	120.80
1	B	451	PHE	CB-CG-CD1	6.29	125.20	120.80
1	D	451	PHE	CB-CG-CD1	6.28	125.19	120.80

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	1809	1684	1699	29	0
1	B	1792	1641	1690	25	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	1838	1667	1733	32	0
1	D	1681	1507	1569	22	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	2	0	0	0	0
3	A	30	42	42	2	0
3	B	10	14	14	3	0
3	C	10	14	14	2	0
4	A	36	54	54	4	0
4	B	24	36	36	2	0
4	C	20	30	30	2	0
4	D	8	12	12	0	0
5	A	7	10	10	0	0
5	C	7	10	10	0	0
6	A	71	0	0	4	0
6	B	48	0	0	4	0
6	C	25	0	0	5	0
6	D	33	0	0	3	0
All	All	7457	6721	6913	104	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 7.

The worst 5 of 104 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:463:CYS:SG	1:C:634:LYS:NZ	2.29	1.05
1:B:634:LYS:NZ	1:C:463:CYS:SG	2.35	0.98
1:A:463:CYS:SG	1:D:634:LYS:NZ	2.38	0.96
1:A:634:LYS:NZ	1:D:463:CYS:SG	2.43	0.92
1:A:585:SER:OG	6:A:801:HOH:O	1.92	0.88

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	212/238 (89%)	208 (98%)	4 (2%)	0	100	100
1	B	210/238 (88%)	207 (99%)	3 (1%)	0	100	100
1	C	215/238 (90%)	205 (95%)	10 (5%)	0	100	100
1	D	193/238 (81%)	187 (97%)	6 (3%)	0	100	100
All	All	830/952 (87%)	807 (97%)	23 (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	202/221 (91%)	200 (99%)	2 (1%)	76	89
1	B	200/221 (90%)	197 (98%)	3 (2%)	65	83
1	C	206/221 (93%)	204 (99%)	2 (1%)	76	89
1	D	186/221 (84%)	184 (99%)	2 (1%)	73	88
All	All	794/884 (90%)	785 (99%)	9 (1%)	73	88

5 of 9 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	667	PHE
1	D	671	TYR
1	C	572	ARG

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Mol	Chain	Res	Type
1	B	451	PHE
1	C	451	PHE

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

Mol	Chain	Res	Type
1	A	542	GLN
1	D	472	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](#)

Of 37 ligands modelled in this entry, 8 are monoatomic - leaving 29 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	$\# Z > 2$
4	EDO	A	713	-	3,3,3	0.48	0	2,2,2	0.41	0
3	PGE	A	705	-	9,9,9	0.47	0	8,8,8	0.49	0
5	PEG	C	709	-	6,6,6	0.48	0	5,5,5	0.43	0
4	EDO	C	706	-	3,3,3	0.46	0	2,2,2	0.32	0
3	PGE	A	704	-	9,9,9	0.49	0	8,8,8	0.31	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	PGE	C	703	-	9,9,9	0.49	0	8,8,8	0.35	0
4	EDO	A	707	-	3,3,3	0.44	0	2,2,2	0.32	0
4	EDO	C	704	-	3,3,3	0.46	0	2,2,2	0.36	0
4	EDO	B	704	-	3,3,3	0.48	0	2,2,2	0.34	0
4	EDO	C	708	-	3,3,3	0.47	0	2,2,2	0.30	0
4	EDO	A	708	-	3,3,3	0.47	0	2,2,2	0.35	0
4	EDO	A	709	-	3,3,3	0.47	0	2,2,2	0.38	0
4	EDO	C	705	-	3,3,3	0.47	0	2,2,2	0.33	0
4	EDO	B	708	-	3,3,3	0.47	0	2,2,2	0.39	0
4	EDO	B	705	-	3,3,3	0.46	0	2,2,2	0.39	0
4	EDO	D	703	-	3,3,3	0.47	0	2,2,2	0.35	0
4	EDO	B	707	-	3,3,3	0.47	0	2,2,2	0.35	0
4	EDO	B	709	-	3,3,3	0.48	0	2,2,2	0.31	0
4	EDO	B	706	-	3,3,3	0.47	0	2,2,2	0.31	0
5	PEG	A	715	-	6,6,6	0.47	0	5,5,5	0.49	0
4	EDO	A	706	-	3,3,3	0.48	0	2,2,2	0.31	0
4	EDO	C	707	-	3,3,3	0.47	0	2,2,2	0.29	0
4	EDO	A	710	-	3,3,3	0.47	0	2,2,2	0.33	0
4	EDO	D	704	-	3,3,3	0.46	0	2,2,2	0.35	0
4	EDO	A	714	-	3,3,3	0.48	0	2,2,2	0.35	0
4	EDO	A	712	-	3,3,3	0.46	0	2,2,2	0.40	0
4	EDO	A	711	-	3,3,3	0.48	0	2,2,2	0.35	0
3	PGE	B	703	-	9,9,9	0.49	0	8,8,8	0.35	0
3	PGE	A	703	-	9,9,9	0.49	0	8,8,8	0.57	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
4	EDO	A	713	-	-	0/1/1/1	-
3	PGE	A	705	-	-	5/7/7/7	-
5	PEG	C	709	-	-	0/4/4/4	-
4	EDO	C	706	-	-	0/1/1/1	-
3	PGE	A	704	-	-	2/7/7/7	-
3	PGE	C	703	-	-	4/7/7/7	-
4	EDO	A	707	-	-	1/1/1/1	-
4	EDO	C	704	-	-	1/1/1/1	-
4	EDO	B	704	-	-	1/1/1/1	-
4	EDO	C	708	-	-	0/1/1/1	-
4	EDO	A	708	-	-	0/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	EDO	A	709	-	-	0/1/1/1	-
4	EDO	C	705	-	-	1/1/1/1	-
4	EDO	B	708	-	-	0/1/1/1	-
4	EDO	B	705	-	-	1/1/1/1	-
4	EDO	D	703	-	-	0/1/1/1	-
4	EDO	B	707	-	-	1/1/1/1	-
4	EDO	B	709	-	-	0/1/1/1	-
4	EDO	B	706	-	-	0/1/1/1	-
5	PEG	A	715	-	-	3/4/4/4	-
4	EDO	A	706	-	-	1/1/1/1	-
4	EDO	C	707	-	-	0/1/1/1	-
4	EDO	A	710	-	-	1/1/1/1	-
4	EDO	D	704	-	-	0/1/1/1	-
4	EDO	A	714	-	-	1/1/1/1	-
4	EDO	A	712	-	-	0/1/1/1	-
4	EDO	A	711	-	-	0/1/1/1	-
3	PGE	B	703	-	-	5/7/7/7	-
3	PGE	A	703	-	-	2/7/7/7	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 30 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	703	PGE	O2-C3-C4-O3
3	A	705	PGE	O2-C3-C4-O3
3	A	703	PGE	C1-C2-O2-C3
3	C	703	PGE	O3-C5-C6-O4
3	B	703	PGE	O3-C5-C6-O4

There are no ring outliers.

11 monomers are involved in 15 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	705	PGE	1	0
4	C	706	EDO	1	0
3	A	704	PGE	1	0
3	C	703	PGE	2	0
4	A	707	EDO	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	C	705	EDO	1	0
4	B	705	EDO	1	0
4	B	706	EDO	1	0
4	A	714	EDO	1	0
4	A	712	EDO	1	0
3	B	703	PGE	3	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 [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>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	216/238 (90%)	0.77	9 (4%) 36 40	31, 49, 85, 130	0
1	B	214/238 (89%)	0.76	11 (5%) 28 30	37, 57, 97, 142	0
1	C	219/238 (92%)	0.60	11 (5%) 28 31	37, 63, 104, 138	0
1	D	199/238 (83%)	1.02	18 (9%) 9 9	42, 66, 116, 153	0
All	All	848/952 (89%)	0.78	49 (5%) 23 24	31, 58, 102, 153	0

The worst 5 of 49 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	445	ASP	8.3
1	D	446	ASP	6.3
1	B	446	ASP	4.9
1	C	528	ASN	4.5
1	D	447	HIS	4.3

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, 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(\AA^2)	Q<0.9
4	EDO	B	705	4/4	0.58	0.62	59,70,75,76	0
4	EDO	A	713	4/4	0.69	0.40	57,68,69,73	0
4	EDO	A	708	4/4	0.71	0.27	60,72,74,76	0
4	EDO	C	707	4/4	0.71	0.35	58,70,73,77	0
5	PEG	C	709	7/7	0.74	0.32	59,70,76,77	0
4	EDO	A	710	4/4	0.75	0.35	56,67,72,72	0
3	PGE	A	704	10/10	0.79	0.28	57,69,73,78	0
3	PGE	C	703	10/10	0.80	0.37	55,66,75,75	0
4	EDO	B	707	4/4	0.80	0.18	58,69,72,73	0
4	EDO	C	708	4/4	0.82	0.42	58,70,76,77	0
3	PGE	A	705	10/10	0.83	0.34	53,65,71,71	0
4	EDO	D	704	4/4	0.83	0.54	58,69,74,76	0
4	EDO	A	712	4/4	0.83	0.36	59,71,72,73	0
3	PGE	B	703	10/10	0.83	0.39	57,68,72,72	0
4	EDO	C	704	4/4	0.84	0.29	58,69,73,75	0
4	EDO	A	709	4/4	0.84	0.42	55,66,72,73	0
4	EDO	D	703	4/4	0.84	0.32	55,66,70,74	0
4	EDO	C	705	4/4	0.85	0.41	50,63,74,76	0
4	EDO	A	707	4/4	0.86	0.29	56,67,70,72	0
4	EDO	B	706	4/4	0.86	0.27	58,70,72,72	0
3	PGE	A	703	10/10	0.87	0.24	55,68,72,72	0
4	EDO	B	704	4/4	0.87	0.39	54,65,69,69	0
5	PEG	A	715	7/7	0.88	0.24	55,66,71,75	0
4	EDO	A	711	4/4	0.89	0.32	56,67,69,70	0
4	EDO	A	706	4/4	0.90	0.27	53,64,68,68	0
4	EDO	B	709	4/4	0.90	0.36	55,66,71,72	0
4	EDO	B	708	4/4	0.91	0.19	60,72,74,80	0
4	EDO	C	706	4/4	0.91	0.55	59,71,73,77	0
4	EDO	A	714	4/4	0.93	0.25	50,60,69,70	0
2	ZN	C	702	1/1	0.98	0.22	58,58,58,58	0
2	ZN	A	702	1/1	0.98	0.26	52,52,52,52	0
2	ZN	A	701	1/1	0.98	0.24	50,50,50,50	0
2	ZN	B	701	1/1	0.99	0.26	50,50,50,50	0
2	ZN	D	701	1/1	0.99	0.17	61,61,61,61	0
2	ZN	B	702	1/1	0.99	0.29	50,50,50,50	0
2	ZN	C	701	1/1	0.99	0.24	50,50,50,50	0
2	ZN	D	702	1/1	0.99	0.18	75,75,75,75	0

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.