



wwPDB X-ray Structure Validation Summary Report ⓘ

May 16, 2020 – 02:18 pm BST

PDB ID : 5OTJ
Title : Monomeric polcalcin (Phl p 7) in complex with two identical allergen-specific antibodies
Authors : Mitropoulou, A.N.; Davies, A.M.; Beavil, A.J.; McDonnell, J.M.; Sutton, B.J.
Deposited on : 2017-08-22
Resolution : 2.35 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

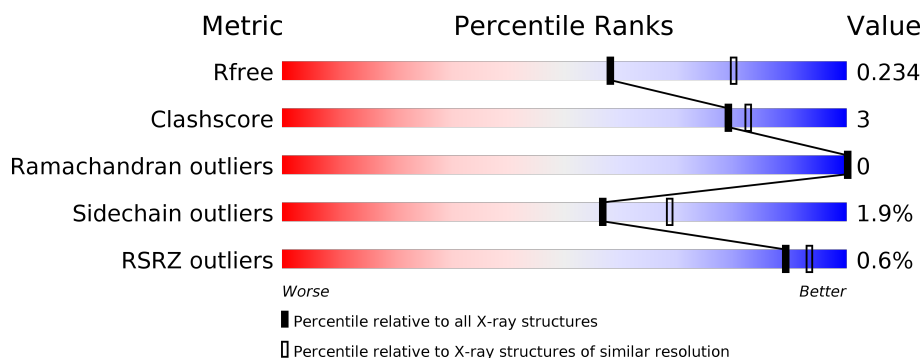
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.35 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	1164 (2.36-2.36)
Clashscore	141614	1232 (2.36-2.36)
Ramachandran outliers	138981	1211 (2.36-2.36)
Sidechain outliers	138945	1212 (2.36-2.36)
RSRZ outliers	127900	1150 (2.36-2.36)

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	217	<div> <div>93%</div> <div>6%</div> </div>
1	L	217	<div> <div>93%</div> <div>6%</div> </div>
2	B	230	<div> <div>%</div> <div>87%</div> <div>10%</div> </div>
2	H	230	<div> <div>86%</div> <div>10%</div> </div>
3	C	110	<div> <div>%</div> <div>55%</div> <div>7%</div> <div>37%</div> </div>
3	D	110	<div> <div>%</div> <div>55%</div> <div>7%</div> <div>37%</div> </div>

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 7729 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 102.1F10 Fab light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	L	214	Total	C	N	O	S	0	2	0
			1561	985	257	315	4			
1	A	214	Total	C	N	O	S	0	1	0
			1564	982	260	318	4			

- Molecule 2 is a protein called 102.1F10 Fab heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	H	222	Total	C	N	O	S	0	1	0
			1636	1028	277	325	6			
2	B	222	Total	C	N	O	S	0	0	0
			1658	1042	285	325	6			

- Molecule 3 is a protein called Polcalcin Phl p 7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	69	Total	C	N	O	S	0	1	1
			514	317	87	107	3			
3	C	69	Total	C	N	O	S	0	0	0
			511	315	85	107	4			

There are 64 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	79	LYS	-	expression tag	UNP O82040
D	80	GLY	-	expression tag	UNP O82040
D	81	GLU	-	expression tag	UNP O82040
D	82	LEU	-	expression tag	UNP O82040
D	83	ASN	-	expression tag	UNP O82040
D	84	SER	-	expression tag	UNP O82040
D	85	LYS	-	expression tag	UNP O82040
D	86	LEU	-	expression tag	UNP O82040

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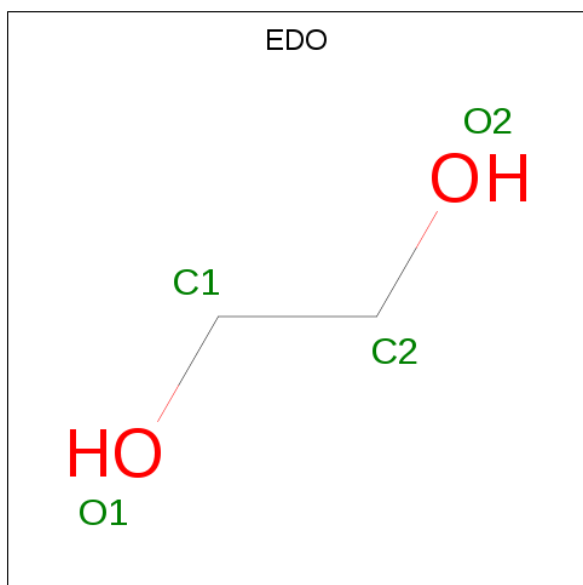
Chain	Residue	Modelled	Actual	Comment	Reference
D	87	GLU	-	expression tag	UNP O82040
D	88	GLY	-	expression tag	UNP O82040
D	89	LYS	-	expression tag	UNP O82040
D	90	PRO	-	expression tag	UNP O82040
D	91	ILE	-	expression tag	UNP O82040
D	92	PRO	-	expression tag	UNP O82040
D	93	ASN	-	expression tag	UNP O82040
D	94	PRO	-	expression tag	UNP O82040
D	95	LEU	-	expression tag	UNP O82040
D	96	LEU	-	expression tag	UNP O82040
D	97	GLY	-	expression tag	UNP O82040
D	98	LEU	-	expression tag	UNP O82040
D	99	ASP	-	expression tag	UNP O82040
D	100	SER	-	expression tag	UNP O82040
D	101	THR	-	expression tag	UNP O82040
D	102	ARG	-	expression tag	UNP O82040
D	103	THR	-	expression tag	UNP O82040
D	104	GLY	-	expression tag	UNP O82040
D	105	HIS	-	expression tag	UNP O82040
D	106	HIS	-	expression tag	UNP O82040
D	107	HIS	-	expression tag	UNP O82040
D	108	HIS	-	expression tag	UNP O82040
D	109	HIS	-	expression tag	UNP O82040
D	110	HIS	-	expression tag	UNP O82040
C	79	LYS	-	expression tag	UNP O82040
C	80	GLY	-	expression tag	UNP O82040
C	81	GLU	-	expression tag	UNP O82040
C	82	LEU	-	expression tag	UNP O82040
C	83	ASN	-	expression tag	UNP O82040
C	84	SER	-	expression tag	UNP O82040
C	85	LYS	-	expression tag	UNP O82040
C	86	LEU	-	expression tag	UNP O82040
C	87	GLU	-	expression tag	UNP O82040
C	88	GLY	-	expression tag	UNP O82040
C	89	LYS	-	expression tag	UNP O82040
C	90	PRO	-	expression tag	UNP O82040
C	91	ILE	-	expression tag	UNP O82040
C	92	PRO	-	expression tag	UNP O82040
C	93	ASN	-	expression tag	UNP O82040
C	94	PRO	-	expression tag	UNP O82040
C	95	LEU	-	expression tag	UNP O82040
C	96	LEU	-	expression tag	UNP O82040

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Chain	Residue	Modelled	Actual	Comment	Reference
C	97	GLY	-	expression tag	UNP O82040
C	98	LEU	-	expression tag	UNP O82040
C	99	ASP	-	expression tag	UNP O82040
C	100	SER	-	expression tag	UNP O82040
C	101	THR	-	expression tag	UNP O82040
C	102	ARG	-	expression tag	UNP O82040
C	103	THR	-	expression tag	UNP O82040
C	104	GLY	-	expression tag	UNP O82040
C	105	HIS	-	expression tag	UNP O82040
C	106	HIS	-	expression tag	UNP O82040
C	107	HIS	-	expression tag	UNP O82040
C	108	HIS	-	expression tag	UNP O82040
C	109	HIS	-	expression tag	UNP O82040
C	110	HIS	-	expression tag	UNP O82040

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



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

- Molecule 5 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	D	2	Total 2	Ca 2	0	0
5	C	2	Total 2	Ca 2	0	0

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	L	66	Total 66	O 66	0	0
6	H	58	Total 58	O 58	0	0
6	A	56	Total 56	O 56	0	0
6	D	18	Total 18	O 18	0	0
6	B	45	Total 45	O 45	0	0
6	C	22	Total 22	O 22	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: 102.1F10 Fab light chain

Chain L: 



- Molecule 1: 102.1F10 Fab light chain

Chain A: 




- Molecule 2: 102.1F10 Fab heavy chain

Chain H: 



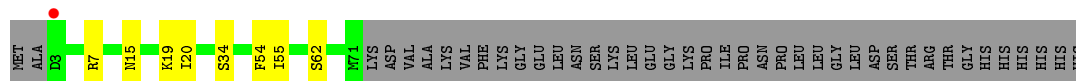
- Molecule 2: 102.1F10 Fab heavy chain

Chain B: 

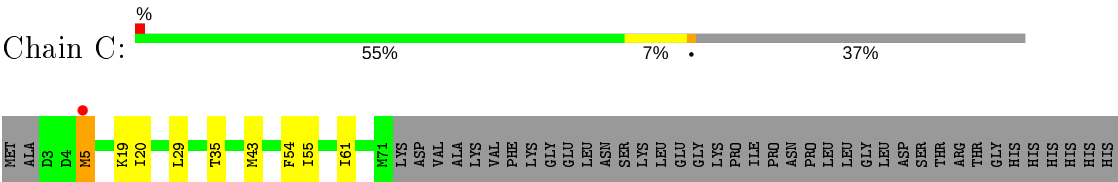


- Molecule 3: Polcalcin Phl p 7

Chain D: 



- Molecule 3: Polcalcin Phl p 7



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	52.76 Å 178.67 Å 66.07 Å 90.00° 94.82° 90.00°	Depositor
Resolution (Å)	53.00 – 2.35 53.00 – 2.35	Depositor EDS
% Data completeness (in resolution range)	90.5 (53.00-2.35) 85.6 (53.00-2.35)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.91 (at 2.34 Å)	Xtriage
Refinement program	PHENIX (1.10.1 _2155: ???)	Depositor
R, R_{free}	0.199 , 0.234 0.201 , 0.234	Depositor DCC
R_{free} test set	1996 reflections (4.31%)	wwPDB-VP
Wilson B-factor (Å ²)	28.3	Xtriage
Anisotropy	0.325	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 34.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	7729	wwPDB-VP
Average B, all atoms (Å ²)	33.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.48% 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: CA, PCA, 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	0.25	0/1601	0.45	0/2193
1	L	0.25	0/1601	0.45	0/2192
2	B	0.25	0/1699	0.47	0/2317
2	H	0.25	0/1679	0.47	0/2296
3	C	0.25	0/517	0.42	0/694
3	D	0.25	0/523	0.39	0/701
All	All	0.25	0/7620	0.45	0/10393

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	1564	0	1472	6	0
1	L	1561	0	1484	8	0
2	B	1658	0	1607	9	0
2	H	1636	0	1555	13	0
3	C	511	0	455	4	0
3	D	514	0	462	4	0
4	A	8	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	D	4	0	6	1	0
4	H	4	0	6	0	0
5	C	2	0	0	0	0
5	D	2	0	0	0	0
6	A	56	0	0	0	0
6	B	45	0	0	0	0
6	C	22	0	0	0	0
6	D	18	0	0	0	0
6	H	58	0	0	2	0
6	L	66	0	0	0	0
All	All	7729	0	7059	41	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 3.

The worst 5 of 41 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:L:109:THR:HG21	1:L:146:PRO:HB3	1.78	0.65
1:L:78:THR:OG1	3:D:7[A]:ARG:NH2	2.32	0.63
2:H:67:ARG:NH2	2:H:90:ASP:OD2	2.32	0.63
2:H:91:THR:HG23	2:H:118:THR:HA	1.83	0.61
2:H:55:ASN:ND2	6:H:403:HOH:O	2.35	0.59

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	213/217 (98%)	207 (97%)	6 (3%)	0	100	100
1	L	214/217 (99%)	207 (97%)	7 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B	220/230 (96%)	214 (97%)	6 (3%)	0	100	100
2	H	221/230 (96%)	212 (96%)	9 (4%)	0	100	100
3	C	67/110 (61%)	65 (97%)	2 (3%)	0	100	100
3	D	68/110 (62%)	67 (98%)	1 (2%)	0	100	100
All	All	1003/1114 (90%)	972 (97%)	31 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	167/177 (94%)	165 (99%)	2 (1%)	71	82
1	L	167/177 (94%)	167 (100%)	0	100	100
2	B	184/195 (94%)	179 (97%)	5 (3%)	44	55
2	H	178/195 (91%)	174 (98%)	4 (2%)	52	63
3	C	51/94 (54%)	49 (96%)	2 (4%)	32	40
3	D	51/94 (54%)	49 (96%)	2 (4%)	32	40
All	All	798/932 (86%)	783 (98%)	15 (2%)	57	68

5 of 15 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	D	34	SER
3	D	62	SER
2	B	204	CYS
1	A	171	LYS
2	B	151	LYS

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 ⓘ

2 non-standard protein/DNA/RNA residues 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	$\# Z > 2$
1	PCA	L	1	1	7,8,9	1.83	1 (14%)	9,10,12	2.09	5 (55%)
1	PCA	A	1	1	7,8,9	1.79	1 (14%)	9,10,12	2.04	4 (44%)

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
1	PCA	L	1	1	-	0/0/11/13	0/1/1/1
1	PCA	A	1	1	-	0/0/11/13	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	1	PCA	CD-N	4.72	1.47	1.34
1	A	1	PCA	CD-N	4.62	1.46	1.34

The worst 5 of 9 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	1	PCA	OE-CD-CG	-3.13	121.31	126.76
1	A	1	PCA	OE-CD-CG	-3.00	121.52	126.76
1	A	1	PCA	CB-CA-N	2.97	111.82	103.30
1	A	1	PCA	CA-N-CD	-2.93	103.56	113.58
1	L	1	PCA	CA-N-CD	-2.82	103.92	113.58

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

Of 8 ligands modelled in this entry, 4 are monoatomic - leaving 4 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	301	-	3,3,3	0.46	0	2,2,2	0.35	0
4	EDO	A	302	-	3,3,3	0.46	0	2,2,2	0.35	0
4	EDO	D	203	-	3,3,3	0.50	0	2,2,2	0.28	0
4	EDO	H	301	-	3,3,3	0.49	0	2,2,2	0.24	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	301	-	-	0/1/1/1	-
4	EDO	A	302	-	-	0/1/1/1	-
4	EDO	D	203	-	-	1/1/1/1	-
4	EDO	H	301	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	D	203	EDO	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	D	203	EDO	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 [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	213/217 (98%)	-0.03	1 (0%) 91 95	14, 25, 45, 69	0
1	L	213/217 (98%)	-0.00	1 (0%) 91 95	15, 28, 53, 62	0
2	B	222/230 (96%)	0.08	2 (0%) 84 90	16, 33, 61, 80	0
2	H	222/230 (96%)	-0.00	0 100 100	16, 33, 58, 91	0
3	C	69/110 (62%)	0.18	1 (1%) 75 83	23, 36, 77, 80	0
3	D	69/110 (62%)	0.19	1 (1%) 75 83	24, 38, 79, 92	0
All	All	1008/1114 (90%)	0.04	6 (0%) 89 93	14, 30, 59, 92	0

The worst 5 of 6 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	141	GLY	4.5
2	B	122	ALA	3.6
3	C	5	MET	3.2
3	D	3	ASP	2.8
1	A	70	GLY	2.1

6.2 Non-standard residues in protein, DNA, RNA chains [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
1	PCA	L	1	8/9	0.87	0.23	37,40,44,45	0
1	PCA	A	1	8/9	0.89	0.18	40,48,50,53	0

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	A	301	4/4	0.68	0.18	69,70,72,72	0
4	EDO	H	301	4/4	0.82	0.25	40,45,47,47	0
4	EDO	D	203	4/4	0.85	0.29	60,61,61,61	0
4	EDO	A	302	4/4	0.88	0.14	55,56,58,59	0
5	CA	D	201	1/1	0.96	0.11	21,21,21,21	0
5	CA	C	201	1/1	0.97	0.14	29,29,29,29	0
5	CA	D	202	1/1	0.98	0.09	25,25,25,25	0
5	CA	C	202	1/1	1.00	0.12	22,22,22,22	0

6.5 Other polymers [i](#)

There are no such residues in this entry.