



Full wwPDB X-ray Structure Validation Report

Jun 24, 2024 – 02:38 PM EDT

PDB ID : 6EYN
Title : Structure of the 8D6 (anti-IgE) Fab
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Deposited on : 2017-11-13
Resolution : 2.40 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 : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.37.1
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) : 2.37.1

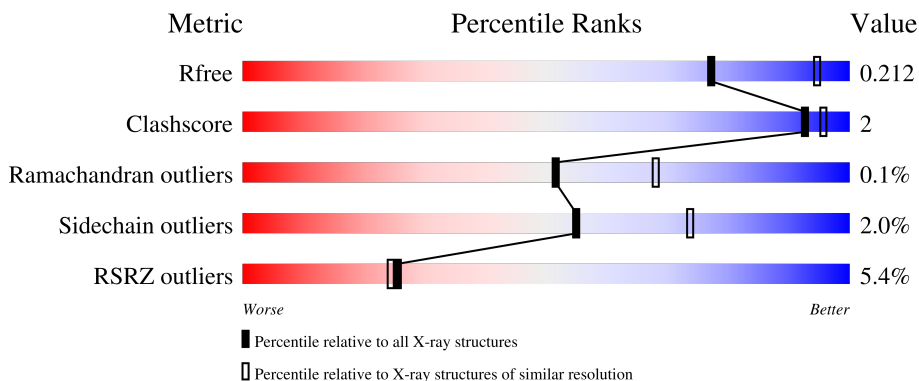
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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	3907 (2.40-2.40)
Clashscore	141614	4398 (2.40-2.40)
Ramachandran outliers	138981	4318 (2.40-2.40)
Sidechain outliers	138945	4319 (2.40-2.40)
RSRZ outliers	127900	3811 (2.40-2.40)

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	218	95%
1	C	218	14%
1	L	218	95%
2	B	227	%
2	D	227	16%

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Mol	Chain	Length	Quality of chain
2	H	227	 91% . 7%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 9460 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 8D6 Fab light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	L	217	Total 1629	C 1026	N 269	O 329	S 5	0	1	0
1	A	214	Total 1562	C 987	N 258	O 312	S 5	0	1	0
1	C	207	Total 1477	C 924	N 247	O 301	S 5	0	1	0

- Molecule 2 is a protein called 8D6 Fab heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	H	211	Total 1576	C 1002	N 258	O 308	S 8	0	4	0
2	B	207	Total 1507	C 967	N 249	O 284	S 7	0	1	0
2	D	194	Total 1401	C 888	N 236	O 270	S 7	0	1	0

- Molecule 3 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: C₄H₁₀O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	L	1	Total	C	O	0	0
			6	4	2		
3	L	1	Total	C	O	0	0
			6	4	2		
3	L	1	Total	C	O	0	0
			6	4	2		

- 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		

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

- Molecule 5 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	D	1	Total O S 5 4 1	0	0

- Molecule 6 is water.

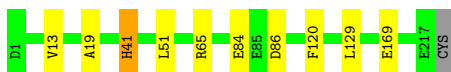
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	L	79	Total O 79 79	0	0
6	H	51	Total O 51 51	0	0
6	A	39	Total O 39 39	0	0
6	B	21	Total O 21 21	0	0
6	C	36	Total O 36 36	0	0
6	D	23	Total O 23 23	0	0

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: 8D6 Fab light chain

Chain L:  95%




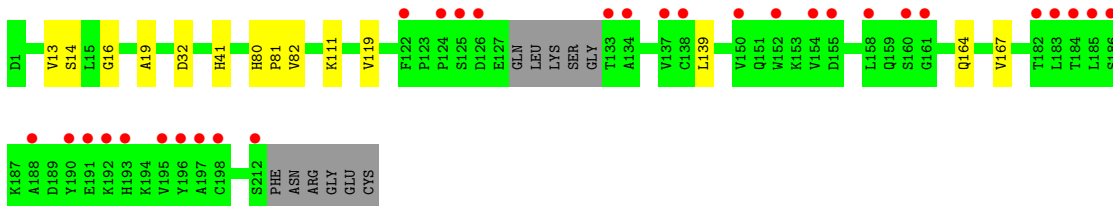
- Molecule 1: 8D6 Fab light chain

Chain A:  95%



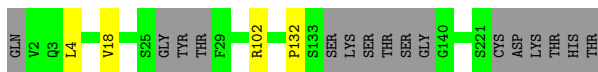
- Molecule 1: 8D6 Fab light chain

Chain C:  14% 89% 6% 5%




- Molecule 2: 8D6 Fab heavy chain

Chain H:  91% 7%




- Molecule 2: 8D6 Fab heavy chain

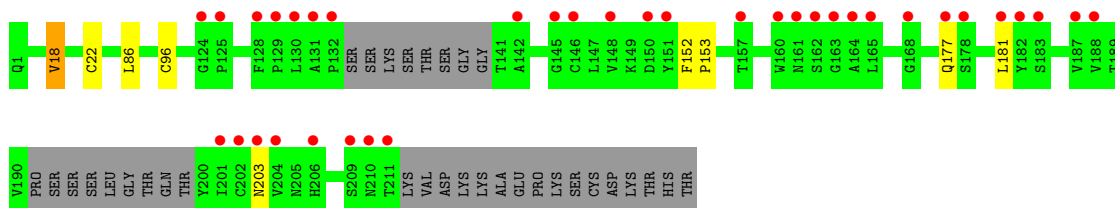
Chain B:  % 84% 7% 9%



CYS
ASP
LYS
THR
HIS
THR

• Molecule 2: 8D6 Fab heavy chain

Chain D:  16% 81% 15%



4 Data and refinement statistics

Property	Value	Source
Space group	P 43	Depositor
Cell constants a, b, c, α , β , γ	157.96Å 157.96Å 77.50Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.55 – 2.40 70.64 – 2.40	Depositor EDS
% Data completeness (in resolution range)	98.7 (43.55-2.40) 98.7 (70.64-2.40)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.09 (at 2.40Å)	Xtrriage
Refinement program	PHENIX (1.10_2155: ???)	Depositor
R, R_{free}	0.181 , 0.212 0.182 , 0.212	Depositor DCC
R_{free} test set	3695 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	51.5	Xtrriage
Anisotropy	0.006	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 52.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.023 for h,-k,-l	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	9460	wwPDB-VP
Average B, all atoms (Å ²)	68.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.71% 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: EDO, SO4, PEG

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	0.27	0/1601	0.48	0/2186
1	C	0.27	0/1515	0.49	0/2066
1	L	0.31	0/1670	0.51	0/2280
2	B	0.26	0/1551	0.48	0/2125
2	D	0.26	0/1444	0.47	0/1973
2	H	0.29	0/1630	0.50	0/2229
All	All	0.28	0/9411	0.49	0/12859

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	1562	0	1415	4	0
1	C	1477	0	1276	5	0
1	L	1629	0	1507	6	0
2	B	1507	0	1370	8	0
2	D	1401	0	1193	4	0
2	H	1576	0	1474	0	0
3	L	18	0	21	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	8	0	12	1	0
4	C	8	0	12	0	0
4	H	20	0	30	1	0
5	D	5	0	0	0	0
6	A	39	0	0	1	0
6	B	21	0	0	0	0
6	C	36	0	0	0	0
6	D	23	0	0	0	0
6	H	51	0	0	1	0
6	L	79	0	0	0	0
All	All	9460	0	8310	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)
2:B:18:VAL:HG22	2:B:86:LEU:HD11	1.64	0.78
2:D:18:VAL:HG22	2:D:86:LEU:HD11	1.71	0.71
1:L:65[B]:ARG:NH2	1:L:86:ASP:OD1	2.35	0.59
1:C:14:SER:HA	1:C:111:LYS:HB2	1.88	0.55
1:A:65[B]:ARG:NH1	1:A:86:ASP:OD2	2.39	0.54
1:L:120:PHE:HD2	4:H:302:EDO:H11	1.74	0.52
6:H:420:HOH:O	2:B:13:LYS:HE3	2.12	0.48
1:A:203:GLN:NE2	6:A:303:HOH:O	2.48	0.47
1:L:84:GLU:HG2	3:L:301:PEG:H32	1.96	0.47
2:B:11:LEU:HB2	2:B:153:PRO:HG3	1.95	0.47
2:D:177:GLN:HG3	2:D:181:LEU:O	2.17	0.45
1:L:41:HIS:HB3	1:L:51:LEU:HD11	1.99	0.44
2:D:152:PHE:HA	2:D:153:PRO:HA	1.82	0.44
2:B:203:ASN:ND2	2:B:214:ASP:OD1	2.50	0.43
1:A:65[B]:ARG:HH12	1:A:86:ASP:CG	2.20	0.43
1:C:80:HIS:HA	1:C:81:PRO:HA	1.83	0.43
2:B:38:LYS:HB2	2:B:48:ILE:HD11	2.01	0.43
2:D:22:CYS:SG	2:D:96[B]:CYS:HB3	2.58	0.43
1:C:16:GLY:HA2	1:C:81:PRO:HB2	2.01	0.43
1:L:13:VAL:HG21	1:L:19:ALA:HB2	2.00	0.42
2:B:22:CYS:SG	2:B:96[A]:CYS:HB3	2.58	0.42
1:C:13:VAL:HG21	1:C:19:ALA:HB2	2.00	0.42
1:A:41:HIS:HB3	1:A:51:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:20:LEU:HD22	2:B:113:THR:HG21	2.02	0.41
1:L:129:LEU:HD12	1:L:129:LEU:HA	1.89	0.41
1:C:119:VAL:HA	1:C:139:LEU:O	2.20	0.41
2:B:33:TRP:HE1	4:B:302:EDO:H21	1.86	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	211/218 (97%)	202 (96%)	9 (4%)	0	100	100
1	C	204/218 (94%)	196 (96%)	8 (4%)	0	100	100
1	L	216/218 (99%)	210 (97%)	6 (3%)	0	100	100
2	B	202/227 (89%)	197 (98%)	5 (2%)	0	100	100
2	D	189/227 (83%)	180 (95%)	9 (5%)	0	100	100
2	H	209/227 (92%)	204 (98%)	4 (2%)	1 (0%)	29	41
All	All	1231/1335 (92%)	1189 (97%)	41 (3%)	1 (0%)	51	68

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	H	132	PRO

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	156/188 (83%)	154 (99%)	2 (1%)	69	84
1	C	142/188 (76%)	137 (96%)	5 (4%)	36	55
1	L	170/188 (90%)	168 (99%)	2 (1%)	71	85
2	B	144/192 (75%)	140 (97%)	4 (3%)	43	63
2	D	125/192 (65%)	123 (98%)	2 (2%)	62	79
2	H	166/192 (86%)	163 (98%)	3 (2%)	59	76
All	All	903/1140 (79%)	885 (98%)	18 (2%)	55	74

All (18) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	L	41	HIS
1	L	169	GLU
2	H	4	LEU
2	H	18	VAL
2	H	102	ARG
1	A	41	HIS
1	A	195	VAL
2	B	4	LEU
2	B	18	VAL
2	B	111	GLN
2	B	156	VAL
1	C	32	ASP
1	C	41	HIS
1	C	82	VAL
1	C	164	GLN
1	C	167	VAL
2	D	18	VAL
2	D	203	ASN

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

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 [i](#)

13 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	$\# Z > 2$
4	EDO	B	302	-	3,3,3	0.45	0	2,2,2	0.34	0
5	SO4	D	301	-	4,4,4	0.14	0	6,6,6	0.07	0
4	EDO	H	305	-	3,3,3	0.47	0	2,2,2	0.30	0
3	PEG	L	303	-	5,5,6	0.88	0	4,4,5	0.29	0
4	EDO	C	301	-	3,3,3	0.49	0	2,2,2	0.29	0
4	EDO	H	303	-	3,3,3	0.42	0	2,2,2	0.43	0
4	EDO	H	301	-	3,3,3	0.54	0	2,2,2	0.18	0
3	PEG	L	302	-	5,5,6	0.85	0	4,4,5	0.27	0
4	EDO	C	302	-	3,3,3	0.46	0	2,2,2	0.30	0
4	EDO	H	302	-	3,3,3	0.46	0	2,2,2	0.24	0
4	EDO	B	301	-	3,3,3	0.44	0	2,2,2	0.39	0
4	EDO	H	304	-	3,3,3	0.45	0	2,2,2	0.31	0
3	PEG	L	301	-	5,5,6	0.87	0	4,4,5	0.28	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	B	302	-	-	0/1/1/1	-
4	EDO	H	305	-	-	0/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	PEG	L	303	-	-	2/3/3/4	-
4	EDO	C	301	-	-	0/1/1/1	-
4	EDO	H	303	-	-	0/1/1/1	-
4	EDO	H	301	-	-	0/1/1/1	-
3	PEG	L	302	-	-	2/3/3/4	-
4	EDO	C	302	-	-	0/1/1/1	-
4	EDO	H	302	-	-	1/1/1/1	-
4	EDO	B	301	-	-	0/1/1/1	-
4	EDO	H	304	-	-	0/1/1/1	-
3	PEG	L	301	-	-	1/3/3/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	L	301	PEG	O2-C3-C4-O4
3	L	303	PEG	C1-C2-O2-C3
3	L	302	PEG	O2-C3-C4-O4
4	H	302	EDO	O1-C1-C2-O2
3	L	302	PEG	C4-C3-O2-C2
3	L	303	PEG	O2-C3-C4-O4

There are no ring outliers.

3 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	302	EDO	1	0
4	H	302	EDO	1	0
3	L	301	PEG	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

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	214/218 (98%)	0.07	0 100 100	44, 68, 115, 129	0
1	C	207/218 (94%)	0.72	30 (14%) 2 2	36, 73, 147, 173	0
1	L	217/218 (99%)	0.17	0 100 100	33, 49, 81, 106	0
2	B	207/227 (91%)	0.14	2 (0%) 82 80	45, 74, 119, 144	0
2	D	194/227 (85%)	0.81	36 (18%) 1 1	37, 82, 127, 147	0
2	H	211/227 (92%)	0.10	0 100 100	32, 53, 101, 115	0
All	All	1250/1335 (93%)	0.33	68 (5%) 25 24	32, 64, 123, 173	0

All (68) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	188	ALA	7.8
1	C	197	ALA	6.6
2	D	129	PRO	5.7
2	D	145	GLY	5.0
2	D	128	PHE	5.0
1	C	195	VAL	5.0
2	B	197	THR	4.8
2	D	161	ASN	4.6
1	C	186	SER	4.6
2	D	202	CYS	4.5
1	C	125	SER	4.4
2	D	165	LEU	4.3
2	D	130	LEU	4.0
1	C	122	PHE	4.0
2	D	131	ALA	3.8
2	D	151	TYR	3.7
1	C	196	TYR	3.7
2	D	150	ASP	3.7
1	C	190	TYR	3.6

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Mol	Chain	Res	Type	RSRZ
1	C	154	VAL	3.6
2	D	204	VAL	3.5
2	D	160	TRP	3.3
2	D	209	SER	3.3
2	D	203	ASN	3.2
1	C	184	THR	3.2
2	D	164	ALA	3.2
1	C	124	PRO	3.1
1	C	126	ASP	3.1
1	C	137	VAL	3.1
2	D	188	VAL	3.1
2	D	201	ILE	3.0
1	C	158	LEU	3.0
1	C	150	VAL	3.0
1	C	155	ASP	3.0
1	C	133	THR	3.0
2	D	182	TYR	2.9
2	D	168	GLY	2.8
2	D	187	VAL	2.8
1	C	183	LEU	2.8
2	D	132	PRO	2.8
1	C	198	CYS	2.7
2	D	148	VAL	2.6
2	D	124	GLY	2.6
2	D	157	THR	2.6
2	D	181	LEU	2.6
1	C	212	SER	2.6
2	D	162	SER	2.6
2	D	183	SER	2.6
2	D	211	THR	2.6
1	C	192	LYS	2.5
1	C	138	CYS	2.5
1	C	193	HIS	2.5
2	D	163	GLY	2.5
2	D	146	CYS	2.5
1	C	182	THR	2.5
2	D	177	GLN	2.4
1	C	152	TRP	2.4
2	D	206	HIS	2.4
1	C	191	GLU	2.3
1	C	160	SER	2.3
2	D	125	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
1	C	161	GLY	2.3
2	D	178	SER	2.2
1	C	134	ALA	2.2
2	D	142	ALA	2.1
1	C	185	LEU	2.1
2	B	131	ALA	2.1
2	D	210	ASN	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 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	L	302	6/7	0.72	0.39	81,92,101,103	0
3	PEG	L	301	6/7	0.76	0.31	71,80,85,90	0
4	EDO	C	301	4/4	0.76	0.20	85,89,92,95	0
5	SO4	D	301	5/5	0.78	0.17	143,144,145,147	0
4	EDO	H	301	4/4	0.81	0.22	53,55,58,60	0
3	PEG	L	303	6/7	0.82	0.23	59,78,82,83	0
4	EDO	H	305	4/4	0.84	0.15	89,90,91,91	0
4	EDO	H	302	4/4	0.87	0.33	66,68,71,79	0
4	EDO	C	302	4/4	0.88	0.14	70,71,77,81	0
4	EDO	H	304	4/4	0.89	0.12	88,88,88,92	0
4	EDO	B	301	4/4	0.93	0.20	79,81,85,87	0
4	EDO	H	303	4/4	0.94	0.19	67,70,71,81	0
4	EDO	B	302	4/4	0.95	0.16	67,71,72,79	0

6.5 Other polymers [i](#)

There are no such residues in this entry.