



Full wwPDB X-ray Structure Validation Report ⓘ

May 25, 2020 – 05:45 am BST

PDB ID : 6DKJ
Title : human GIPR ECD and Fab complex
Authors : Min, X.; Wang, Z.
Deposited on : 2018-05-29
Resolution : 1.95 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 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

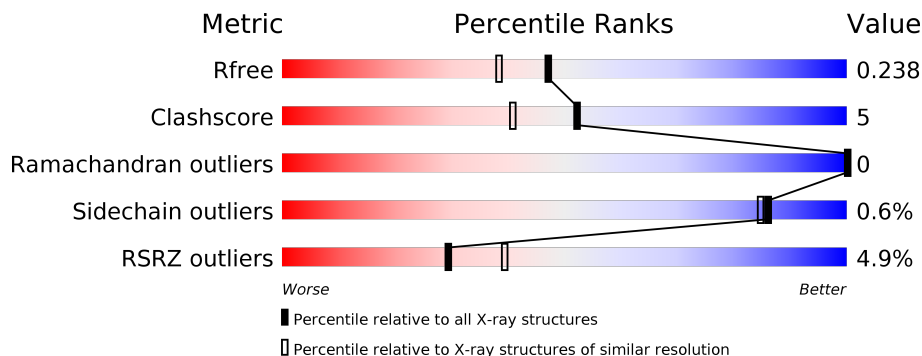
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.95 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	2580 (1.96-1.96)
Clashscore	141614	2705 (1.96-1.96)
Ramachandran outliers	138981	2678 (1.96-1.96)
Sidechain outliers	138945	2678 (1.96-1.96)
RSRZ outliers	127900	2539 (1.96-1.96)

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	223	
1	H	223	
2	B	214	
2	L	214	
3	C	117	
3	D	117	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 9287 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 Fab heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	H	222	Total	C	N	O	S	0	0	0
			1669	1056	282	325	6			
1	A	221	Total	C	N	O	S	0	1	0
			1672	1061	281	324	6			

- Molecule 2 is a protein called Fab light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	L	213	Total	C	N	O	S	0	1	0
			1629	1017	278	329	5			
2	B	213	Total	C	N	O	S	0	1	0
			1627	1016	277	329	5			

- Molecule 3 is a protein called Gastric inhibitory polypeptide receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	C	102	Total	C	N	O	S	0	0	0
			822	514	149	152	7			
3	D	106	Total	C	N	O	S	0	0	0
			857	538	156	156	7			

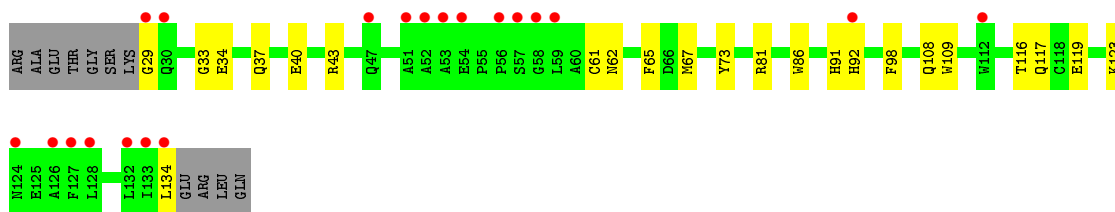
- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



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

- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	H	241	Total O 241 241	0	0
5	L	202	Total O 202 202	0	0
5	C	84	Total O 84 84	0	0
5	A	219	Total O 219 219	0	0
5	B	177	Total O 177 177	0	0
5	D	80	Total O 80 80	0	0



4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	55.91Å 63.65Å 159.10Å 90.00° 92.56° 90.00°	Depositor
Resolution (Å)	19.72 – 1.95 19.72 – 1.95	Depositor EDS
% Data completeness (in resolution range)	97.1 (19.72-1.95) 97.1 (19.72-1.95)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.54 (at 1.94Å)	Xtrriage
Refinement program	PHENIX (dev-2328_1692)	Depositor
R, R_{free}	0.199 , 0.238 0.199 , 0.238	Depositor DCC
R_{free} test set	3838 reflections (4.84%)	wwPDB-VP
Wilson B-factor (Å ²)	21.9	Xtrriage
Anisotropy	0.552	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 53.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.027 for h,-k,-l	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	9287	wwPDB-VP
Average B, all atoms (Å ²)	26.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 16.71% of the height of the origin peak. No significant pseudotranslation is detected.*

¹ Intensities estimated from amplitudes.

² Theoretical 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

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	0.26	0/1718	0.48	0/2343
1	H	0.26	0/1711	0.48	0/2333
2	B	0.40	2/1664 (0.1%)	0.52	1/2262 (0.0%)
2	L	0.28	0/1666	0.51	0/2265
3	C	0.26	0/851	0.41	0/1161
3	D	0.25	0/886	0.43	0/1208
All	All	0.30	2/8496 (0.0%)	0.48	1/11572 (0.0%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	45	ARG	NE-CZ	-7.83	1.22	1.33
2	B	45	ARG	CZ-NH1	-7.58	1.23	1.33

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	45	ARG	NE-CZ-NH1	-5.47	117.57	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	1672	0	1631	14	0
1	H	1669	0	1627	11	0
2	B	1627	0	1589	18	0
2	L	1629	0	1590	19	1
3	C	822	0	727	13	0
3	D	857	0	773	17	1
4	A	4	0	6	0	0
4	D	4	0	6	0	0
5	A	219	0	0	6	0
5	B	177	0	0	6	2
5	C	84	0	0	5	0
5	D	80	0	0	6	1
5	H	241	0	0	3	1
5	L	202	0	0	8	0
All	All	9287	0	7949	89	3

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 5.

All (89) 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)
3:C:54:GLU:OE1	5:C:201:HOH:O	1.89	0.91
3:C:112:TRP:NE1	5:C:204:HOH:O	2.10	0.83
2:B:122:ASP:OD1	5:B:301:HOH:O	1.96	0.82
2:L:108:ARG:NH1	2:L:109:THR:O	2.15	0.80
3:C:106:ASP:OD1	5:C:202:HOH:O	2.01	0.77
3:C:81:ARG:NH1	5:C:203:HOH:O	2.07	0.77
2:B:20:THR:O	5:B:302:HOH:O	2.07	0.73
3:D:134:LEU:O	5:D:301:HOH:O	2.06	0.72
2:L:70:GLU:OE1	5:L:301:HOH:O	2.08	0.71
2:L:142:ARG:NH1	5:L:303:HOH:O	2.23	0.71
2:B:79:GLN:OE1	5:B:303:HOH:O	2.11	0.68
1:H:87:ARG:NH1	5:H:302:HOH:O	2.18	0.65
1:A:73:ASP:OD2	1:A:76:LYS:NZ	2.29	0.65
2:B:81:GLU:HB3	5:B:390:HOH:O	1.97	0.65
2:L:161:GLU:HG3	5:L:374:HOH:O	1.96	0.65
2:B:24:ARG:NH2	2:B:70:GLU:OE1	2.31	0.63
2:L:129:THR:OG1	5:L:302:HOH:O	2.13	0.63
1:A:89:GLU:OE1	5:A:401:HOH:O	2.15	0.63
3:C:120:ASN:HB3	3:C:123:LYS:HG2	1.81	0.62
3:D:33:GLY:O	3:D:37:GLN:HG2	2.00	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:37:GLN:HB2	2:L:47:LEU:HD11	1.83	0.59
1:H:130:PRO:HD3	1:H:216:LYS:HE2	1.84	0.59
3:D:108:GLN:NE2	5:D:305:HOH:O	2.30	0.59
2:L:197:THR:HG23	5:L:397:HOH:O	2.03	0.58
3:C:120:ASN:H	3:C:123:LYS:NZ	2.01	0.58
1:A:136:LYS:NZ	5:A:404:HOH:O	2.28	0.57
1:A:134:SER:O	1:A:138:THR:OG1	2.18	0.57
1:H:168:SER:O	5:H:301:HOH:O	2.17	0.57
3:D:86:TRP:HA	3:D:91:HIS:CD2	2.40	0.56
2:L:39:LYS:HD2	2:L:84:ALA:HB2	1.89	0.55
5:A:447:HOH:O	3:D:123:LYS:HE2	2.06	0.54
3:D:34:GLU:CD	5:D:302:HOH:O	2.46	0.54
1:H:126:PRO:HB3	1:H:152:TYR:HB3	1.90	0.54
2:B:45:ARG:NH1	2:B:46:LEU:H	2.06	0.53
3:C:116:THR:HA	3:C:119:GLU:HG3	1.90	0.53
2:B:33:LEU:HD22	2:B:71:PHE:CG	2.43	0.53
2:L:18:ARG:NH2	5:L:312:HOH:O	2.37	0.53
2:L:197:THR:HG21	5:L:489:HOH:O	2.09	0.53
2:L:108:ARG:HH11	2:L:108:ARG:HG3	1.74	0.52
1:H:19:ARG:NH1	1:H:82:GLN:OE1	2.43	0.52
2:L:33:LEU:HD22	2:L:71:PHE:CG	2.46	0.51
1:A:221:LYS:NZ	2:B:122:ASP:OD2	2.37	0.50
3:C:120:ASN:HB3	3:C:123:LYS:HE3	1.92	0.50
3:D:116:THR:HA	3:D:119:GLU:HG3	1.92	0.50
3:C:112:TRP:CZ2	3:C:114:ASP:HB2	2.47	0.49
3:C:30:GLN:NE2	5:C:205:HOH:O	2.26	0.49
2:B:108:ARG:NH1	2:B:109:THR:O	2.46	0.49
2:L:108:ARG:HG3	2:L:109:THR:O	2.13	0.49
1:A:138:THR:HA	1:A:143:ALA:HA	1.95	0.48
2:B:45:ARG:NH2	2:B:46:LEU:O	2.46	0.48
2:L:24:ARG:CZ	2:L:70:GLU:OE2	2.61	0.48
1:A:12:VAL:HG11	1:A:86:LEU:HD13	1.95	0.47
1:A:126:PRO:HB3	1:A:152:TYR:HB3	1.97	0.47
3:D:43:ARG:HG3	3:D:65:PHE:CE2	2.50	0.47
3:D:40:GLU:OE1	3:D:43:ARG:NH1	2.48	0.46
2:B:167:ASP:O	2:B:171:SER:N	2.47	0.46
3:D:29:GLY:HA2	5:D:372:HOH:O	2.16	0.45
2:B:108:ARG:HD2	2:B:171:SER:HB2	1.99	0.45
2:L:167:ASP:O	2:L:171:SER:N	2.46	0.45
1:A:129:PHE:CE1	2:B:123:GLU:HG2	2.52	0.45
1:A:13:GLN:NE2	5:A:411:HOH:O	2.45	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:86:TRP:HA	3:D:91:HIS:CG	2.51	0.44
3:D:29:GLY:O	5:D:302:HOH:O	2.21	0.44
1:H:40:ALA:HB3	1:H:43:GLU:HG3	1.98	0.44
3:C:120:ASN:H	3:C:123:LYS:HZ2	1.64	0.44
2:B:142:ARG:HB2	2:B:173:TYR:CE1	2.53	0.44
1:A:203:CYS:SG	1:A:216:LYS:HB3	2.58	0.44
2:B:54:ARG:NE	5:B:308:HOH:O	2.34	0.43
1:H:219:GLU:HA	5:H:330:HOH:O	2.18	0.43
3:D:98:PHE:N	3:D:117:GLN:OE1	2.51	0.43
2:L:145:LYS:HB3	2:L:197:THR:OG1	2.19	0.43
1:A:87:ARG:NE	5:A:417:HOH:O	2.51	0.43
2:B:81:GLU:OE2	5:B:304:HOH:O	2.21	0.43
2:L:54:ARG:HD3	2:L:62:VAL:O	2.19	0.43
2:L:18:ARG:NE	5:L:312:HOH:O	2.50	0.43
3:D:92:HIS:HB2	5:D:370:HOH:O	2.18	0.42
1:H:1:GLN:CD	1:H:2:VAL:H	2.23	0.42
1:H:1:GLN:CG	1:H:2:VAL:H	2.33	0.42
1:A:130:PRO:HD3	1:A:216:LYS:HE2	2.01	0.42
3:D:61:CYS:HB3	3:D:109:TRP:CE2	2.55	0.42
1:H:83:MET:HB3	1:H:86:LEU:HD21	2.01	0.42
3:D:65:PHE:CE2	3:D:67:MET:HA	2.56	0.41
1:A:84:ASN:ND2	5:A:408:HOH:O	2.37	0.41
3:D:62:ASN:HA	3:D:73:TYR:CD1	2.56	0.41
2:B:140:TYR:CG	2:B:141:PRO:HA	2.56	0.41
3:C:86:TRP:HA	3:C:91:HIS:CD2	2.56	0.41
2:L:108:ARG:HD2	2:L:171:SER:HB2	2.03	0.41
2:B:45:ARG:CZ	2:B:46:LEU:O	2.69	0.40
1:H:56:SER:CB	3:C:123:LYS:HE2	2.51	0.40

All (3) 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	Interatomic distance (Å)	Clash overlap (Å)
5:H:404:HOH:O	5:B:357:HOH:O[1_545]	2.15	0.05
5:B:433:HOH:O	5:D:328:HOH:O[2_646]	2.15	0.05
2:L:152[B]:ASN:OD1	3:D:116:THR:OG1[2_546]	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	Percentiles	
1	A	220/223 (99%)	215 (98%)	5 (2%)	0	100	100
1	H	220/223 (99%)	214 (97%)	6 (3%)	0	100	100
2	B	212/214 (99%)	206 (97%)	6 (3%)	0	100	100
2	L	212/214 (99%)	208 (98%)	4 (2%)	0	100	100
3	C	100/117 (86%)	95 (95%)	5 (5%)	0	100	100
3	D	104/117 (89%)	101 (97%)	3 (3%)	0	100	100
All	All	1068/1108 (96%)	1039 (97%)	29 (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	184/185 (100%)	183 (100%)	1 (0%)	88	88
1	H	184/185 (100%)	183 (100%)	1 (0%)	88	88
2	B	183/183 (100%)	182 (100%)	1 (0%)	88	88
2	L	183/183 (100%)	182 (100%)	1 (0%)	88	88
3	C	81/94 (86%)	81 (100%)	0	100	100
3	D	85/94 (90%)	84 (99%)	1 (1%)	71	68
All	All	900/924 (97%)	895 (99%)	5 (1%)	86	85

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

Mol	Chain	Res	Type
1	H	5	VAL
2	L	137	ASN
1	A	87	ARG
2	B	105	GLU
3	D	81	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
3	D	91	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](#)

2 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	D	201	-	3,3,3	0.45	0	2,2,2	0.34	0
4	EDO	A	301	-	3,3,3	0.47	0	2,2,2	0.32	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	D	201	-	-	0/1/1/1	-
4	EDO	A	301	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

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 [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	221/223 (99%)	0.23	10 (4%) 33 43	13, 21, 39, 54	0
1	H	222/223 (99%)	0.03	3 (1%) 75 82	15, 21, 33, 54	0
2	B	213/214 (99%)	0.28	5 (2%) 60 69	14, 25, 40, 46	0
2	L	213/214 (99%)	0.13	4 (1%) 66 74	16, 23, 36, 50	0
3	C	102/117 (87%)	0.58	11 (10%) 5 9	19, 29, 49, 54	0
3	D	106/117 (90%)	0.93	20 (18%) 1 1	19, 31, 52, 64	0
All	All	1077/1108 (97%)	0.28	53 (4%) 29 39	13, 24, 43, 64	0

All (53) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	D	127	PHE	6.1
1	A	140	GLY	5.7
3	D	53	ALA	5.3
3	D	29	GLY	5.0
3	C	128	LEU	4.9
3	C	127	PHE	4.8
1	H	222	SER	4.2
3	D	56	PRO	4.1
3	D	57	SER	4.0
1	A	1	GLN	3.8
3	D	134	LEU	3.7
3	C	57	SER	3.7
2	L	212	GLY	3.6
1	A	137	SER	3.5
1	A	138	THR	3.5
3	C	29	GLY	3.5
3	C	124	ASN	3.4
1	A	141	GLY	3.3
1	A	135	SER	3.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	C	125	GLU	3.3
3	D	133	ILE	3.2
3	D	54	GLU	2.9
3	C	123	LYS	2.9
1	H	1	GLN	2.8
3	D	52	ALA	2.8
1	A	136	LYS	2.7
2	L	41	GLY	2.7
1	A	109[A]	TYR	2.7
3	D	132	LEU	2.7
3	C	121	PRO	2.6
3	D	58	GLY	2.6
3	C	92	HIS	2.5
1	A	139	SER	2.5
3	D	51	ALA	2.5
3	C	58	GLY	2.5
1	H	109	TYR	2.5
3	C	112	TRP	2.4
2	B	126	LYS	2.4
3	D	124	ASN	2.3
3	D	126	ALA	2.3
2	B	81	GLU	2.3
3	D	47	GLN	2.3
2	L	40	PRO	2.2
3	D	59	LEU	2.2
3	D	112	TRP	2.2
1	A	197	GLY	2.2
2	B	86	TYR	2.2
3	D	128	LEU	2.1
3	D	92	HIS	2.1
2	B	212	GLY	2.1
2	L	45	ARG	2.1
3	D	30	GLN	2.1
2	B	76	SER	2.1

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(Å ²)	Q<0.9
4	EDO	D	201	4/4	0.92	0.15	21,23,23,30	0
4	EDO	A	301	4/4	0.92	0.12	19,21,23,23	0

6.5 Other polymers [i](#)

There are no such residues in this entry.