



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 12:21 PM GMT

PDB ID : 3R0F
Title : Human enterovirus 71 3C protease mutant H133G in complex with rupintrivir
Authors : Wang, J.; Fan, T.; Yao, X.; Wu, Z.; Guo, L.; Lei, X.; Wang, J.; Wang, M.; Jin, Q.; Cui, S.
Deposited on : 2011-03-08
Resolution : 1.31 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
<http://wwpdb.org/validation/2016/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 : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

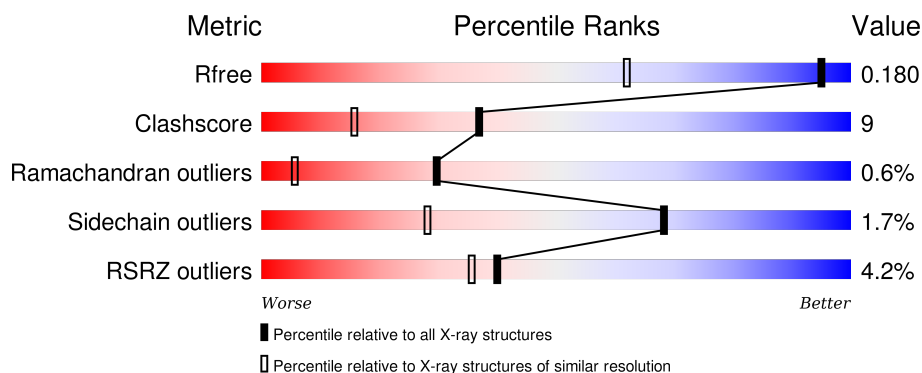
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.31 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}	91344	1475 (1.34-1.26)
Clashscore	102246	1031 (1.32-1.28)
Ramachandran outliers	100387	1504 (1.34-1.26)
Sidechain outliers	100360	1503 (1.34-1.26)
RSRZ outliers	91569	1476 (1.34-1.26)

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. 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	187	<div> <div>5%</div> <div>81%</div> <div>16%</div> <div>.</div> </div>
1	B	187	<div> <div>3%</div> <div>79%</div> <div>13%</div> <div>6%</div> <div>.</div> </div>

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 criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	EDO	A	185	-	-	-	X
3	EDO	B	184	-	-	-	X

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 7127 atoms, of which 3775 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.

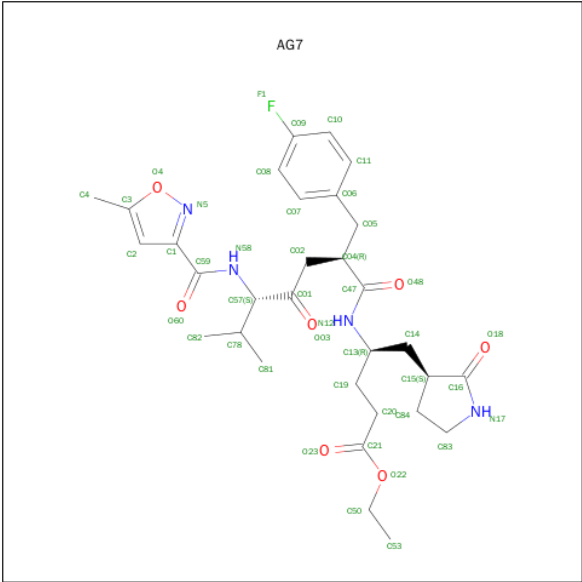
- Molecule 1 is a protein called 3C protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	181	Total	C	H	N	O	S	2	21	0
			3120	966	1611	268	267	8			
1	B	176	Total	C	H	N	O	S	0	14	0
			2988	927	1540	260	253	8			

There are 10 discrepancies between the modelled and reference sequences:

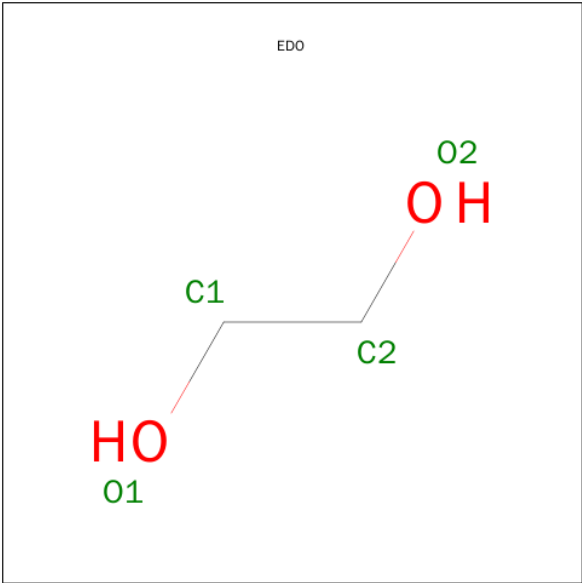
Chain	Residue	Modelled	Actual	Comment	Reference
A	-3	GLY	-	EXPRESSION TAG	UNP E7E815
A	-2	SER	-	EXPRESSION TAG	UNP E7E815
A	-1	HIS	-	EXPRESSION TAG	UNP E7E815
A	0	MET	-	EXPRESSION TAG	UNP E7E815
A	133	GLY	HIS	ENGINEERED MUTATION	UNP E7E815
B	-3	GLY	-	EXPRESSION TAG	UNP E7E815
B	-2	SER	-	EXPRESSION TAG	UNP E7E815
B	-1	HIS	-	EXPRESSION TAG	UNP E7E815
B	0	MET	-	EXPRESSION TAG	UNP E7E815
B	133	GLY	HIS	ENGINEERED MUTATION	UNP E7E815

- Molecule 2 is 4-{2-(4-FLUORO-BENZYL)-6-METHYL-5-[(5-METHYL-ISOXAZOLE-3-CARBONYL)-AMINO]-4-OXO-HEPTANOYLAMINO}-5-(2-OXO-PYRROLIDIN-3-YL)-PENTANOIC ACID ETHYL ESTER (three-letter code: AG7) (formula: C₃₁H₄₁FN₄O₇).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total	C	F	H	N	O	0	0
			80	31	1	37	4	7		
2	B	1	Total	C	F	H	N	O	0	0
			80	31	1	37	4	7		

- Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



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

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

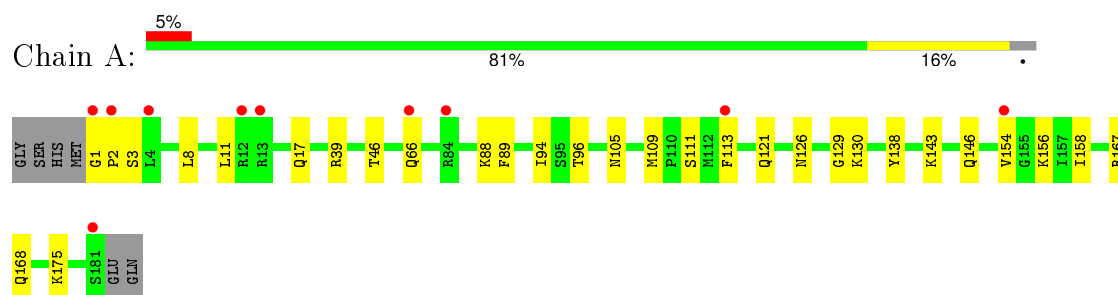
- Molecule 4 is water.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	146	Total	H	O	0	0
			418	272	146		
4	B	147	Total	H	O	0	0
			401	254	147		

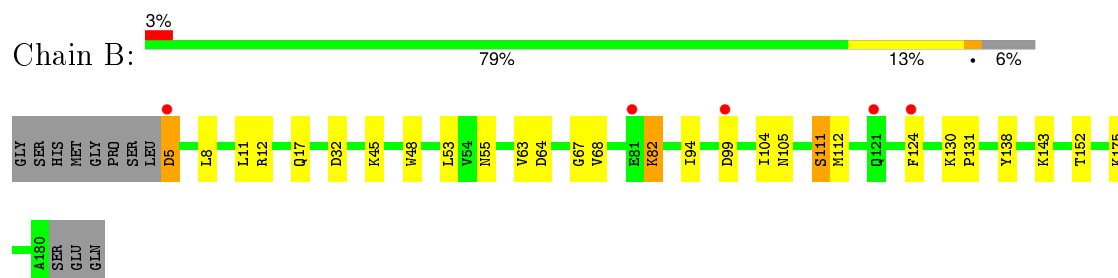
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: 3C protein



• Molecule 1: 3C protein



4 Data and refinement statistics

Property	Value	Source
Space group	I 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	69.72Å 98.20Å 102.62Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	57.67 – 1.31 57.67 – 1.31	Depositor EDS
% Data completeness (in resolution range)	96.4 (57.67-1.31) 98.1 (57.67-1.31)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.70 (at 1.31Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.6.1_357)	Depositor
R, R_{free}	0.147 , 0.175 0.155 , 0.180	Depositor DCC
R_{free} test set	4165 reflections (5.26%)	DCC
Wilson B-factor (Å ²)	11.8	Xtriage
Anisotropy	0.245	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.40 , 53.8	EDS
Estimated twinning fraction	0.036 for -h,-l,-k	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Outliers	0 of 83287 reflections	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	7127	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.26% 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, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: AG7, 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	0.38	0/1599	0.59	0/2157
1	B	0.39	0/1515	0.57	0/2042
All	All	0.38	0/3114	0.58	0/4199

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

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	1509	1611	1596	28	0
1	B	1448	1540	1535	32	0
2	A	43	37	40	0	0
2	B	43	37	40	0	0
3	A	8	12	12	0	0
3	B	8	12	12	0	0
4	A	146	272	0	7	0
4	B	147	254	0	5	0
All	All	3352	3775	3235	59	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 9.

All (59) 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:5:ASP:N	4:B:289:HOH:O	2.02	0.92
1:B:82:LYS:HD2	4:B:272:HOH:O	1.73	0.87
1:B:63[A]:VAL:HG11	1:B:67:GLY:HA2	1.62	0.80
1:B:124:PHE:CE1	1:B:131:PRO:HB3	2.21	0.75
1:B:63[A]:VAL:HG12	1:B:64:ASP:O	1.92	0.70
1:A:109:MET:CE	1:A:143[A]:LYS:HE3	2.23	0.68
1:A:109:MET:HE1	1:A:143[A]:LYS:HE3	1.78	0.65
1:B:143[B]:LYS:HE3	4:B:265:HOH:O	1.97	0.64
1:B:99:ASP:N	4:B:241:HOH:O	2.29	0.63
1:A:39:ARG:NH2	1:A:130[A]:LYS:HD2	2.13	0.62
1:A:2:PRO:HA	4:A:314:HOH:O	1.99	0.61
1:B:94:ILE:CD1	1:B:175[A]:LYS:HG3	2.32	0.60
1:A:66[A]:GLN:NE2	1:B:64:ASP:OD1	2.35	0.59
1:A:46[B]:THR:HG22	4:A:263:HOH:O	2.03	0.59
1:B:63[A]:VAL:CG1	1:B:67:GLY:HA2	2.34	0.58
1:A:1:GLY:O	4:A:314:HOH:O	2.17	0.58
1:B:124:PHE:HE1	1:B:131:PRO:HB3	1.69	0.57
1:A:126:ASN:HD21	1:A:129:GLY:HA2	1.73	0.54
1:B:104:ILE:HB	1:B:112:MET:HG2	1.89	0.54
1:B:63[A]:VAL:HG11	1:B:67:GLY:CA	2.36	0.54
1:A:143[A]:LYS:HE2	1:A:146:GLN:NE2	2.24	0.53
1:B:94:ILE:HD13	1:B:175[A]:LYS:HG3	1.91	0.53
1:A:167[A]:ARG:HG2	1:A:168[A]:GLN:NE2	2.24	0.52
1:A:17:GLN:HE21	1:A:105:ASN:HD21	1.58	0.52
1:B:105:ASN:ND2	1:B:111:SER:H	2.09	0.51
1:B:63[A]:VAL:HG13	1:B:67:GLY:C	2.31	0.51
1:B:17:GLN:HE21	1:B:105:ASN:HD21	1.59	0.50
1:B:63[A]:VAL:CG1	1:B:67:GLY:CA	2.90	0.50
1:A:105:ASN:ND2	1:A:111:SER:H	2.10	0.50
1:B:105:ASN:HD22	1:B:111:SER:H	1.59	0.50
1:A:156[B]:LYS:HE3	1:A:158:ILE:HG21	1.93	0.49
1:A:167[A]:ARG:CD	1:A:168[A]:GLN:HE22	2.26	0.49
1:A:11:LEU:HD22	1:A:113:PHE:CZ	2.50	0.47
1:B:8:LEU:HD22	1:B:12[B]:ARG:NH1	2.29	0.46
1:B:48:TRP:CE2	1:B:53:LEU:HD21	2.49	0.46
1:A:156[A]:LYS:HE2	4:A:326:HOH:O	2.15	0.46
1:A:66[A]:GLN:OE1	4:A:233:HOH:O	2.21	0.46
1:A:96:THR:CG2	1:A:121[B]:GLN:HG2	2.46	0.46
1:B:45[B]:LYS:HE2	1:B:55:ASN:OD1	2.15	0.46
1:B:32:ASP:HA	1:B:82:LYS:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:152:THR:HG23	4:B:331:HOH:O	2.16	0.46
1:A:167[A]:ARG:HD3	1:A:168[A]:GLN:HE22	1.82	0.45
1:A:105:ASN:HD22	1:A:111:SER:H	1.65	0.45
1:A:17:GLN:HE21	1:A:105:ASN:ND2	2.15	0.44
1:A:96:THR:CG2	1:A:121[A]:GLN:HG3	2.46	0.44
1:B:11:LEU:HD21	1:B:111:SER:HB3	1.98	0.44
1:A:94[B]:ILE:HD13	1:A:175:LYS:HG3	1.99	0.44
1:B:63[A]:VAL:CG1	1:B:67:GLY:C	2.86	0.44
1:B:124:PHE:CZ	1:B:131:PRO:HB3	2.52	0.43
1:A:2:PRO:CA	4:A:314:HOH:O	2.63	0.43
1:A:143[A]:LYS:HE2	1:A:146:GLN:HE21	1.82	0.43
1:B:130[A]:LYS:HE3	1:B:130[A]:LYS:HB2	1.85	0.43
1:B:64:ASP:OD1	1:B:68:VAL:HB	2.18	0.42
1:A:66[A]:GLN:NE2	4:A:227:HOH:O	2.53	0.42
1:B:99:ASP:O	1:B:99:ASP:OD2	2.38	0.42
1:A:88[B]:LYS:HE3	1:A:89:PHE:CZ	2.54	0.42
1:B:17:GLN:HE21	1:B:105:ASN:ND2	2.19	0.41
1:B:63[A]:VAL:CG1	1:B:64:ASP:N	2.83	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	200/187 (107%)	189 (94%)	9 (4%)	2 (1%)	19	1
1	B	188/187 (100%)	182 (97%)	5 (3%)	1 (0%)	34	7
All	All	388/374 (104%)	371 (96%)	14 (4%)	3 (1%)	30	3

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	154[A]	VAL
1	A	154[B]	VAL
1	B	111	SER

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	174/159 (109%)	172 (99%)	2 (1%)	80	47
1	B	164/159 (103%)	161 (98%)	3 (2%)	66	25
All	All	338/318 (106%)	333 (98%)	5 (2%)	68	33

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

Mol	Chain	Res	Type
1	A	8	LEU
1	A	138	TYR
1	B	5	ASP
1	B	82	LYS
1	B	138	TYR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	105	ASN
1	A	126	ASN
1	B	105	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

6 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	$\# Z > 2$
3	EDO	A	184	-	3,3,3	0.42	0	2,2,2	0.48	0
3	EDO	A	185	-	3,3,3	0.58	0	2,2,2	0.29	0
2	AG7	A	501	-	42,45,45	2.46	11 (26%)	45,61,61	1.35	6 (13%)
3	EDO	B	184	-	3,3,3	0.49	0	2,2,2	0.54	0
3	EDO	B	185	-	3,3,3	0.56	0	2,2,2	0.25	0
2	AG7	B	501	-	42,45,45	2.65	11 (26%)	45,61,61	1.14	1 (2%)

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	EDO	A	184	-	-	0/1/1/1	0/0/0/0
3	EDO	A	185	-	-	0/1/1/1	0/0/0/0
2	AG7	A	501	-	-	0/40/54/54	0/2/3/3
3	EDO	B	184	-	-	0/1/1/1	0/0/0/0
3	EDO	B	185	-	-	0/1/1/1	0/0/0/0
2	AG7	B	501	-	-	0/40/54/54	0/2/3/3

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	501	AG7	C2-C3	-3.73	1.30	1.39
2	A	501	AG7	C15-C16	-3.13	1.48	1.52
2	B	501	AG7	C2-C3	-3.06	1.32	1.39
2	B	501	AG7	C15-C16	-2.98	1.48	1.52
2	B	501	AG7	O22-C50	-2.28	1.38	1.46
2	A	501	AG7	O22-C50	-2.16	1.39	1.46
2	A	501	AG7	O48-C47	-2.13	1.19	1.23
2	B	501	AG7	C4-C3	2.03	1.51	1.48
2	A	501	AG7	C2-C1	2.70	1.44	1.40
2	B	501	AG7	C2-C1	3.71	1.46	1.40
2	A	501	AG7	C11-C06	4.01	1.47	1.38
2	A	501	AG7	C59-N58	4.60	1.44	1.34
2	B	501	AG7	C59-N58	4.88	1.45	1.34
2	B	501	AG7	C11-C06	5.17	1.49	1.38
2	A	501	AG7	C47-N12	5.43	1.46	1.34
2	A	501	AG7	C10-C09	5.82	1.48	1.37
2	B	501	AG7	C47-N12	5.92	1.47	1.34
2	A	501	AG7	C08-C07	5.97	1.49	1.38
2	B	501	AG7	C10-C09	6.27	1.49	1.37
2	B	501	AG7	C08-C07	6.53	1.50	1.38
2	A	501	AG7	C16-N17	7.28	1.42	1.33
2	B	501	AG7	C16-N17	8.18	1.44	1.33

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	501	AG7	C19-C13-N12	-2.46	107.15	110.27
2	A	501	AG7	C83-N17-C16	-2.45	108.03	113.60
2	A	501	AG7	C13-N12-C47	-2.03	120.03	123.18
2	A	501	AG7	O18-C16-N17	-2.02	123.73	125.96
2	A	501	AG7	O03-C01-C02	2.08	124.04	121.38
2	B	501	AG7	O22-C21-C20	2.58	119.77	111.90
2	A	501	AG7	C1-C2-C3	3.42	107.83	106.08

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

There are no such residues in this entry.

5.8 Polymer linkage issues

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	181/187 (96%)	-0.13	10 (5%) 29 25	6, 14, 29, 41	0
1	B	176/187 (94%)	-0.15	5 (2%) 56 53	6, 14, 31, 44	0
All	All	357/374 (95%)	-0.14	15 (4%) 40 36	6, 14, 30, 44	0

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	2	PRO	5.2
1	A	4	LEU	5.0
1	B	124	PHE	4.1
1	B	99	ASP	3.1
1	A	13[A]	ARG	2.9
1	A	66[A]	GLN	2.8
1	B	5	ASP	2.8
1	A	154[A]	VAL	2.7
1	A	181	SER	2.6
1	A	84	ARG	2.5
1	B	81	GLU	2.3
1	B	121	GLN	2.2
1	A	113	PHE	2.1
1	A	1	GLY	2.1
1	A	12	ARG	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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
3	EDO	A	185	4/4	0.86	0.17	6.75	21,25,26,26	0
3	EDO	B	184	4/4	0.67	0.17	3.75	21,25,30,32	0
3	EDO	B	185	4/4	0.93	0.10	1.20	20,24,26,26	0
2	AG7	A	501	43/43	0.96	0.08	0.17	10,16,32,39	0
3	EDO	A	184	4/4	0.90	0.10	0.12	21,25,27,29	0
2	AG7	B	501	43/43	0.96	0.08	-0.12	10,16,39,40	0

6.5 Other polymers [i](#)

There are no such residues in this entry.