



Full wwPDB X-ray Structure Validation Report ⓘ

May 15, 2020 – 08:02 am BST

PDB ID : 2PPY
Title : Crystal structure of Enoyl-CoA hydrates (gk_1992) from Geobacillus Kaustophilus HTA426
Authors : Kanaujia, S.P.; Jeyakanthan, J.; Kavyashree, M.; Sekar, K.; Ebihara, A.; Kuramitsu, S.; Shinkai, A.; Shiro, Y.; Yokoyama, S.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2007-05-01
Resolution : 2.16 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

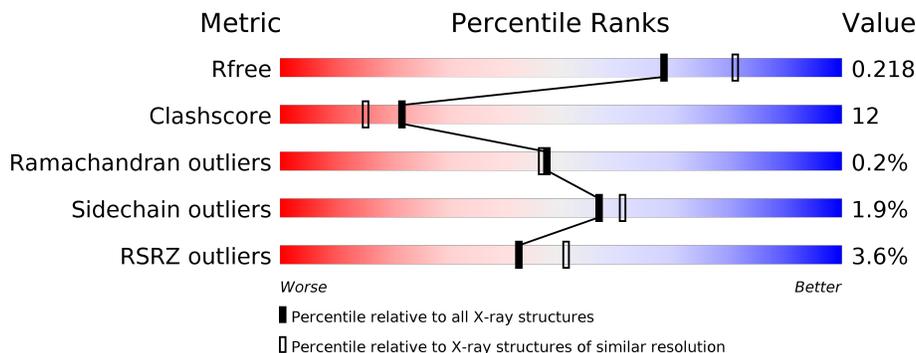
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.16 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	1479 (2.16-2.16)
Clashscore	141614	1585 (2.16-2.16)
Ramachandran outliers	138981	1560 (2.16-2.16)
Sidechain outliers	138945	1559 (2.16-2.16)
RSRZ outliers	127900	1456 (2.16-2.16)

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	265	5% (poor fit), 74% (0 outliers), 23% (1 outlier), 0% (2 outliers), 0% (3+ outliers)
1	B	265	2% (poor fit), 78% (0 outliers), 19% (1 outlier), 0% (2 outliers), 0% (3+ outliers)
1	C	265	4% (poor fit), 81% (0 outliers), 17% (1 outlier), 0% (2 outliers), 0% (3+ outliers)
1	D	265	2% (poor fit), 79% (0 outliers), 20% (1 outlier), 0% (2 outliers), 0% (3+ outliers)
1	E	265	2% (poor fit), 80% (0 outliers), 18% (1 outlier), 0% (2 outliers), 0% (3+ outliers)
1	F	265	6% (poor fit), 72% (0 outliers), 26% (1 outlier), 0% (2 outliers), 0% (3+ outliers)

2 Entry composition [i](#)

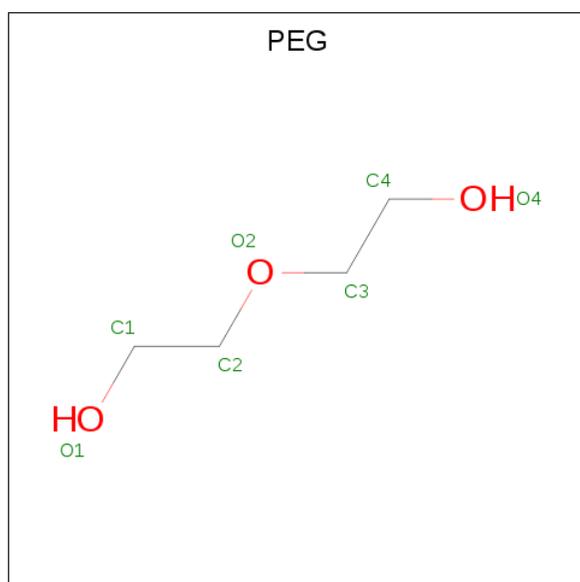
There are 4 unique types of molecules in this entry. The entry contains 13511 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Enoyl-CoA hydratase.

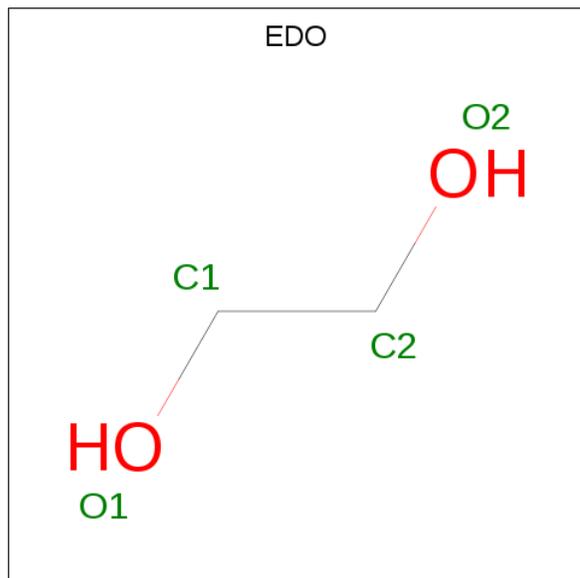
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	S	Se			
1	A	264	Total 2068	C 1311	N 356	O 391	S 4	Se 6	0	0	0
1	B	261	Total 2049	C 1299	N 353	O 387	S 4	Se 6	0	0	0
1	C	263	Total 2061	C 1307	N 355	O 389	S 4	Se 6	0	0	0
1	D	264	Total 2068	C 1311	N 356	O 391	S 4	Se 6	0	0	0
1	E	262	Total 2056	C 1304	N 354	O 388	S 4	Se 6	0	0	0
1	F	263	Total 2061	C 1307	N 355	O 389	S 4	Se 6	0	0	0

- Molecule 2 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: C₄H₁₀O₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	B	1	Total C O 7 4 3	0	0
2	B	1	Total C O 7 4 3	0	0
2	C	1	Total C O 7 4 3	0	0
2	C	1	Total C O 7 4 3	0	0
2	F	1	Total C O 7 4 3	0	0
2	F	1	Total C O 7 4 3	0	0

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



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

- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	189	Total O 189 189	0	0
4	B	177	Total O 177 177	0	0

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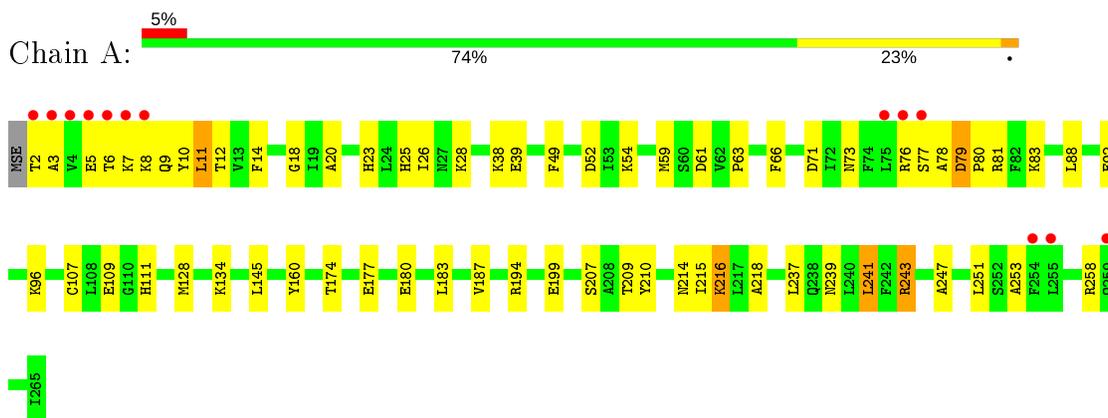
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	C	178	Total 178	O 178	0	0
4	D	197	Total 197	O 197	0	0
4	E	193	Total 193	O 193	0	0
4	F	164	Total 164	O 164	0	0

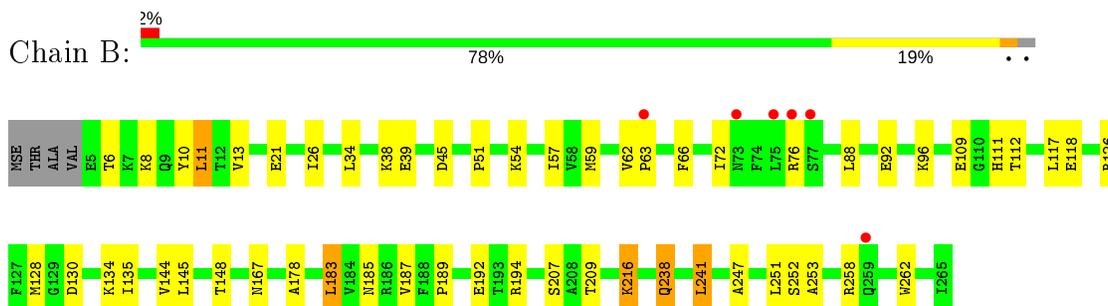
3 Residue-property plots [i](#)

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.

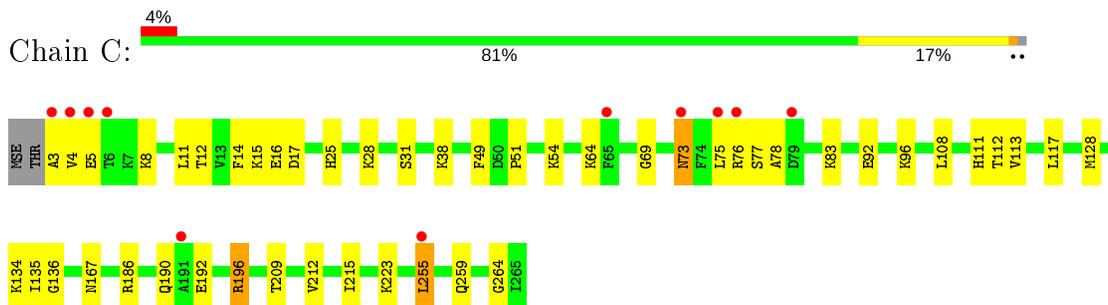
- Molecule 1: Enoyl-CoA hydratase



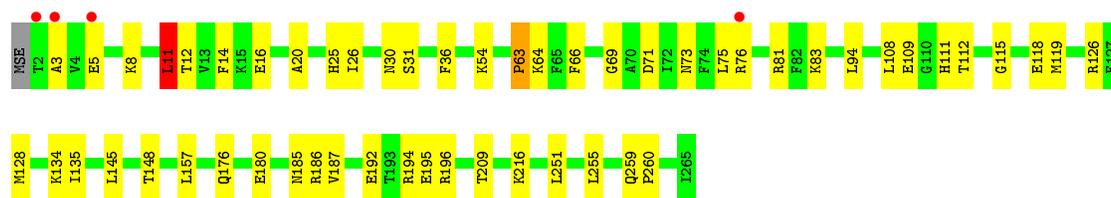
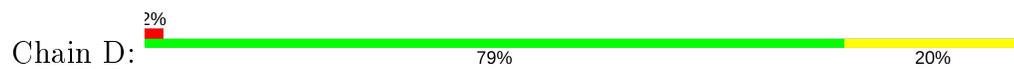
- Molecule 1: Enoyl-CoA hydratase



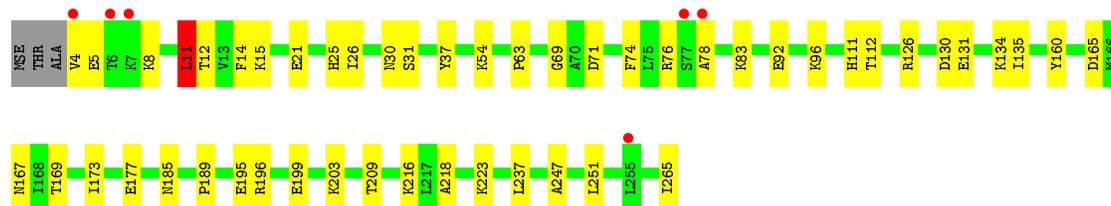
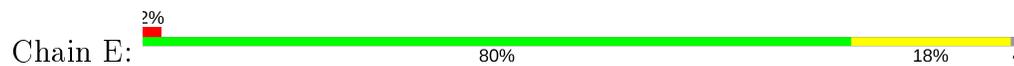
- Molecule 1: Enoyl-CoA hydratase



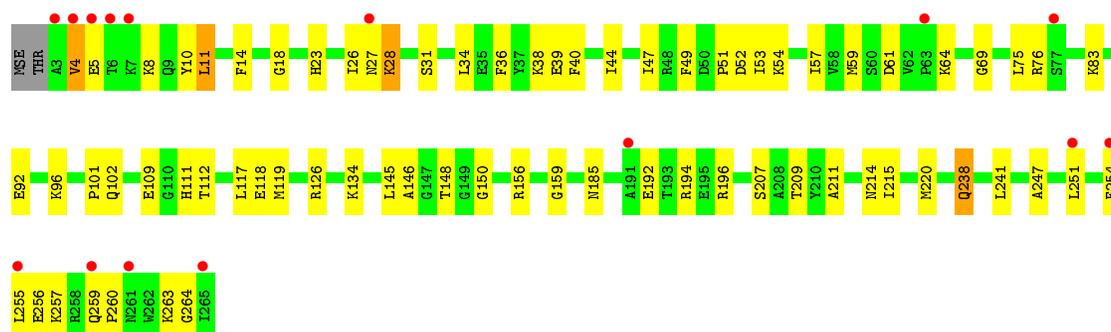
- Molecule 1: Enoyl-CoA hydratase



- Molecule 1: Enoyl-CoA hydratase



- Molecule 1: Enoyl-CoA hydratase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	136.20Å 137.34Å 79.13Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	39.63 – 2.16 39.63 – 2.16	Depositor EDS
% Data completeness (in resolution range)	96.8 (39.63-2.16) 98.5 (39.63-2.16)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.25 (at 2.16Å)	Xtrriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.176 , 0.219 0.176 , 0.218	Depositor DCC
R_{free} test set	2940 reflections (1.97%)	wwPDB-VP
Wilson B-factor (Å ²)	19.5	Xtrriage
Anisotropy	0.377	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 59.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.007 for k,h,-l	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	13511	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.70% 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: PEG, 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	0.31	0/2097	0.57	1/2818 (0.0%)
1	B	0.30	0/2078	0.57	1/2791 (0.0%)
1	C	0.31	0/2090	0.57	0/2808
1	D	0.32	0/2097	0.60	2/2818 (0.1%)
1	E	0.31	0/2085	0.58	1/2801 (0.0%)
1	F	0.30	0/2090	0.58	0/2808
All	All	0.31	0/12537	0.58	5/16844 (0.0%)

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	11	LEU	CA-CB-CG	5.57	128.12	115.30
1	A	66	PHE	N-CA-C	-5.52	96.08	111.00
1	D	66	PHE	N-CA-C	-5.34	96.58	111.00
1	D	11	LEU	CA-CB-CG	5.13	127.11	115.30
1	B	66	PHE	N-CA-C	-5.03	97.43	111.00

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	2068	0	2075	58	0
1	B	2049	0	2054	57	0
1	C	2061	0	2068	45	0
1	D	2068	0	2075	48	0
1	E	2056	0	2063	39	0
1	F	2061	0	2068	72	0
2	B	14	0	20	6	0
2	C	14	0	20	1	0
2	F	14	0	20	4	0
3	C	4	0	6	0	0
3	D	4	0	6	0	0
4	A	189	0	0	4	0
4	B	177	0	0	2	0
4	C	178	0	0	6	0
4	D	197	0	0	0	0
4	E	193	0	0	3	0
4	F	164	0	0	5	0
All	All	13511	0	12475	296	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 12.

All (296) 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:252:SER:HA	1:D:76:ARG:NH1	1.81	0.95
1:F:4:VAL:HG12	1:F:5:GLU:H	1.32	0.93
1:D:111:HIS:HD2	1:D:134:LYS:H	1.25	0.84
1:F:209:THR:HG22	1:F:264:GLY:HA2	1.58	0.83
1:C:111:HIS:HD2	1:C:134:LYS:H	1.23	0.82
1:F:5:GLU:HB2	1:F:14:PHE:CD1	2.14	0.82
1:B:72:ILE:HD11	1:F:251:LEU:HG	1.63	0.80
1:B:130:ASP:OD2	1:B:189:PRO:HA	1.81	0.79
1:A:111:HIS:HD2	1:A:134:LYS:H	1.28	0.79
1:B:238:GLN:HE22	1:D:145:LEU:H	1.30	0.77
1:F:126:ARG:H	1:F:185:ASN:HD22	1.31	0.75
1:B:6:THR:HG23	1:B:13:VAL:HB	1.67	0.75
1:B:38:LYS:HE2	2:B:267:PEG:H21	1.69	0.74
1:C:73:ASN:O	1:C:76:ARG:HG2	1.88	0.73
1:D:108:LEU:HD13	1:D:128:MSE:HE3	1.70	0.73
1:B:126:ARG:H	1:B:185:ASN:HD22	1.36	0.72
1:D:128:MSE:HE1	1:D:135:ILE:HD12	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:8:LYS:HD2	1:E:11:LEU:HD22	1.70	0.72
1:C:209:THR:HA	1:C:212:VAL:HG22	1.71	0.72
1:B:252:SER:HA	1:D:76:ARG:HH12	1.53	0.71
1:E:126:ARG:H	1:E:185:ASN:HD22	1.39	0.71
1:D:8:LYS:HD2	1:D:11:LEU:HD22	1.73	0.70
1:B:34:LEU:HG	1:B:38:LYS:HE3	1.71	0.70
1:E:199:GLU:HG3	4:E:459:HOH:O	1.92	0.68
1:D:126:ARG:H	1:D:185:ASN:HD22	1.41	0.68
1:F:238:GLN:HE21	1:F:238:GLN:HA	1.58	0.68
1:A:2:THR:HG23	1:A:3:ALA:H	1.58	0.67
1:B:253:ALA:HB1	1:B:258:ARG:O	1.94	0.66
1:E:247:ALA:O	1:E:251:LEU:HD13	1.95	0.66
1:D:8:LYS:HD2	1:D:11:LEU:CD2	2.25	0.66
1:E:130:ASP:OD2	1:E:189:PRO:HA	1.96	0.66
1:E:12:THR:OG1	1:E:25:HIS:HE1	1.77	0.65
1:A:243:ARG:HG2	1:A:243:ARG:HH11	1.61	0.65
1:B:54:LYS:HG2	1:B:209:THR:HG21	1.77	0.65
1:C:76:ARG:HG3	1:C:77:SER:N	2.11	0.65
1:F:109:GLU:OE2	1:F:194:ARG:HG3	1.96	0.65
1:F:111:HIS:HD2	1:F:134:LYS:H	1.44	0.64
1:F:54:LYS:HE3	1:F:209:THR:HG21	1.80	0.63
1:B:111:HIS:CD2	1:B:134:LYS:H	2.17	0.62
1:D:11:LEU:HD23	1:D:11:LEU:C	2.19	0.62
1:B:145:LEU:H	1:F:238:GLN:HE22	1.47	0.62
1:A:10:TYR:HB2	1:A:39:GLU:OE1	1.98	0.62
1:C:4:VAL:O	1:C:4:VAL:HG12	1.99	0.62
1:F:36:PHE:CE2	1:F:119:MSE:HE1	2.34	0.61
1:F:27:ASN:OD1	1:F:28:LYS:HD2	2.00	0.61
1:F:247:ALA:O	1:F:251:LEU:HB2	2.01	0.61
1:B:72:ILE:HG23	1:F:255:LEU:HD21	1.80	0.61
1:D:157:LEU:HA	2:F:266:PEG:H12	1.82	0.61
1:A:247:ALA:O	1:A:251:LEU:HD13	2.00	0.61
1:A:12:THR:OG1	1:A:25:HIS:HE1	1.84	0.61
1:B:128:MSE:O	1:B:187:VAL:HA	2.02	0.60
1:D:26:ILE:H	1:D:30:ASN:ND2	2.00	0.60
1:B:38:LYS:HE2	2:B:267:PEG:H32	1.82	0.59
1:A:2:THR:HG23	1:A:3:ALA:N	2.16	0.59
1:A:199:GLU:HG3	4:A:960:HOH:O	2.02	0.59
1:A:11:LEU:C	1:A:11:LEU:HD23	2.23	0.59
1:F:28:LYS:HD2	1:F:28:LYS:H	1.66	0.59
1:B:76:ARG:HB2	1:F:251:LEU:CD2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:7:LYS:HG2	1:A:12:THR:HG23	1.85	0.58
1:A:6:THR:HG21	4:A:754:HOH:O	2.03	0.58
1:C:38:LYS:HG2	2:C:267:PEG:H11	1.85	0.58
1:F:23:HIS:HB3	1:F:61:ASP:OD2	2.04	0.58
1:B:76:ARG:HB2	1:F:251:LEU:HD21	1.85	0.58
1:D:75:LEU:O	1:D:83:LYS:HE2	2.03	0.58
1:D:64:LYS:HD2	1:D:64:LYS:N	2.19	0.57
1:D:111:HIS:CD2	1:D:134:LYS:H	2.13	0.57
1:D:108:LEU:CD1	1:D:128:MSE:HE3	2.34	0.57
1:B:72:ILE:HG22	4:B:1039:HOH:O	2.03	0.57
1:F:57:ILE:HG21	1:F:59:MSE:HE2	1.87	0.57
1:C:111:HIS:CD2	1:C:134:LYS:H	2.13	0.57
1:F:5:GLU:HB2	1:F:14:PHE:HD1	1.70	0.57
1:B:109:GLU:OE2	1:B:194:ARG:HG3	2.04	0.56
1:D:54:LYS:HG3	1:D:209:THR:HG21	1.87	0.56
1:B:72:ILE:HG21	1:F:254:PHE:CE2	2.41	0.56
1:C:259:GLN:HG3	4:C:1156:HOH:O	2.05	0.55
1:D:192:GLU:OE2	1:D:196:ARG:HD2	2.07	0.55
1:A:76:ARG:O	1:A:77:SER:HB3	2.05	0.55
1:B:8:LYS:HB2	1:B:11:LEU:HD23	1.88	0.55
1:C:255:LEU:HD13	1:E:76:ARG:HD2	1.88	0.55
1:D:5:GLU:HG2	1:D:14:PHE:HD1	1.71	0.55
1:F:36:PHE:HE2	1:F:119:MSE:HE1	1.71	0.55
1:B:51:PRO:O	1:B:54:LYS:NZ	2.40	0.55
1:F:11:LEU:HD23	1:F:11:LEU:C	2.27	0.55
1:F:211:ALA:O	1:F:215:ILE:HG13	2.07	0.55
1:F:118:GLU:CD	1:F:148:THR:HG23	2.27	0.54
1:A:10:TYR:HD1	1:A:26:ILE:HG23	1.73	0.54
1:F:207:SER:HB2	4:F:1071:HOH:O	2.08	0.54
1:B:6:THR:CG2	1:B:13:VAL:HB	2.36	0.54
1:B:8:LYS:HD3	1:B:11:LEU:HD21	1.90	0.54
1:F:111:HIS:CD2	1:F:134:LYS:H	2.25	0.54
1:A:109:GLU:OE2	1:A:194:ARG:HG3	2.08	0.53
1:A:111:HIS:CD2	1:A:134:LYS:H	2.17	0.53
1:C:76:ARG:CG	1:C:77:SER:N	2.71	0.53
1:D:12:THR:OG1	1:D:25:HIS:HE1	1.92	0.53
1:F:101:PRO:HG2	1:F:102:GLN:NE2	2.23	0.53
1:A:253:ALA:HB1	1:A:258:ARG:O	2.08	0.53
1:A:38:LYS:HG2	2:B:266:PEG:H32	1.90	0.53
1:B:72:ILE:HG21	1:F:254:PHE:HE2	1.74	0.53
1:E:5:GLU:OE2	1:E:14:PHE:HE1	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:4:VAL:HG12	1:F:5:GLU:N	2.14	0.53
1:A:239:ASN:O	1:A:243:ARG:HD3	2.09	0.53
1:A:243:ARG:NH1	1:A:243:ARG:HG2	2.24	0.53
1:C:209:THR:HG23	4:C:784:HOH:O	2.07	0.53
1:D:36:PHE:CE2	1:D:119:MSE:HE1	2.44	0.53
1:A:11:LEU:O	1:A:11:LEU:HD23	2.08	0.53
1:D:128:MSE:CE	1:D:135:ILE:HD12	2.37	0.53
1:D:255:LEU:HD12	1:F:76:ARG:HD2	1.91	0.53
1:B:10:TYR:HD2	1:B:26:ILE:HG23	1.73	0.52
1:E:31:SER:HA	1:E:69:GLY:O	2.10	0.52
1:A:7:LYS:HG2	1:A:12:THR:CG2	2.40	0.52
1:F:209:THR:HG22	1:F:264:GLY:CA	2.36	0.52
1:B:207:SER:HA	1:B:262:TRP:CD1	2.45	0.52
1:A:54:LYS:HG2	1:A:209:THR:CB	2.39	0.52
1:A:8:LYS:HD3	1:A:39:GLU:OE2	2.08	0.52
1:C:4:VAL:HG11	4:C:1110:HOH:O	2.08	0.52
1:C:209:THR:HG23	1:C:264:GLY:HA2	1.92	0.52
1:E:92:GLU:O	1:E:96:LYS:HG3	2.09	0.52
1:C:54:LYS:HE3	1:C:209:THR:HG21	1.93	0.51
1:E:26:ILE:H	1:E:30:ASN:ND2	2.07	0.51
1:F:34:LEU:HG	1:F:38:LYS:HE3	1.93	0.51
1:C:73:ASN:OD1	1:C:76:ARG:CZ	2.58	0.51
1:B:118:GLU:CD	1:B:148:THR:HG23	2.31	0.51
1:A:76:ARG:HB2	1:E:251:LEU:HD23	1.91	0.51
1:A:18:GLY:HA2	1:A:52:ASP:O	2.11	0.51
1:B:189:PRO:HB2	1:B:192:GLU:HG2	1.92	0.51
1:F:31:SER:HA	1:F:69:GLY:O	2.10	0.51
1:C:112:THR:HG22	1:C:117:LEU:HA	1.92	0.51
1:E:11:LEU:HD23	1:E:11:LEU:C	2.32	0.51
1:C:186:ARG:HH11	1:C:186:ARG:HG2	1.75	0.51
1:A:207:SER:HB2	4:C:562:HOH:O	2.10	0.51
1:C:3:ALA:O	1:C:15:LYS:O	2.28	0.50
1:E:203:LYS:NZ	1:E:203:LYS:HB3	2.26	0.50
1:F:214:ASN:HD22	1:F:241:LEU:HD13	1.76	0.50
1:C:78:ALA:HB3	1:C:83:LYS:HE3	1.92	0.50
1:A:54:LYS:HG2	1:A:209:THR:HB	1.93	0.50
1:B:45:ASP:HB3	2:B:266:PEG:H11	1.93	0.50
1:F:57:ILE:CG2	1:F:59:MSE:HE2	2.42	0.50
1:F:75:LEU:O	1:F:83:LYS:HE3	2.10	0.50
1:F:27:ASN:CG	1:F:28:LYS:HD2	2.31	0.50
1:F:49:PHE:O	1:F:51:PRO:HD3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:126:ARG:H	1:B:185:ASN:ND2	2.07	0.50
1:B:118:GLU:OE1	1:B:148:THR:CG2	2.60	0.50
1:F:220:MSE:HE2	4:F:308:HOH:O	2.11	0.50
1:C:209:THR:CG2	1:C:264:GLY:HA2	2.41	0.49
1:D:81:ARG:NH2	1:E:265:ILE:HD11	2.27	0.49
1:C:92:GLU:O	1:C:96:LYS:HG3	2.11	0.49
1:A:79:ASP:OD1	1:A:80:PRO:HD2	2.13	0.49
1:C:12:THR:OG1	1:C:25:HIS:HE1	1.96	0.49
1:A:76:ARG:HG3	1:A:77:SER:H	1.76	0.49
1:D:3:ALA:HA	1:D:16:GLU:HB2	1.94	0.49
1:A:5:GLU:HG2	1:A:14:PHE:HD1	1.76	0.49
1:C:196:ARG:HG3	1:C:196:ARG:HH11	1.77	0.49
1:C:11:LEU:HD23	1:C:12:THR:N	2.28	0.49
1:D:128:MSE:O	1:D:187:VAL:HA	2.13	0.49
1:F:112:THR:HG22	1:F:117:LEU:HA	1.95	0.49
1:F:8:LYS:HB3	1:F:39:GLU:OE2	2.13	0.48
1:B:57:ILE:HG21	1:B:59:MSE:HE2	1.95	0.48
1:C:49:PHE:O	1:C:51:PRO:HD3	2.13	0.48
1:F:64:LYS:HE3	4:F:1383:HOH:O	2.13	0.48
1:A:49:PHE:CD2	2:B:267:PEG:H41	2.47	0.48
1:A:81:ARG:HD3	4:B:943:HOH:O	2.13	0.48
1:C:215:ILE:HG21	1:E:167:ASN:HB3	1.96	0.48
1:F:64:LYS:NZ	1:F:111:HIS:HE1	2.10	0.48
1:E:111:HIS:CD2	1:E:134:LYS:H	2.32	0.48
1:F:92:GLU:O	1:F:96:LYS:HG3	2.13	0.48
1:C:54:LYS:HD2	1:C:209:THR:OG1	2.12	0.48
1:A:174:THR:OG1	1:A:177:GLU:HG3	2.13	0.48
1:F:156:ARG:HH11	1:F:156:ARG:HG3	1.78	0.48
1:F:256:GLU:O	1:F:257:LYS:C	2.52	0.48
1:B:62:VAL:HG13	1:B:63:PRO:HD2	1.95	0.47
1:A:76:ARG:HD3	1:E:251:LEU:CD2	2.45	0.47
1:B:117:LEU:HD13	1:B:135:ILE:HD11	1.95	0.47
1:C:11:LEU:C	1:C:11:LEU:HD23	2.34	0.47
1:A:79:ASP:OD2	1:A:81:ARG:HB2	2.15	0.47
1:E:8:LYS:HD2	1:E:11:LEU:CD2	2.42	0.47
1:C:209:THR:O	1:C:212:VAL:HG22	2.15	0.47
1:D:31:SER:HA	1:D:69:GLY:O	2.15	0.47
1:E:218:ALA:HB2	1:E:237:LEU:HD13	1.97	0.47
1:E:4:VAL:HG13	1:E:5:GLU:N	2.29	0.47
1:F:64:LYS:HZ3	1:F:111:HIS:HE1	1.63	0.47
1:A:25:HIS:CD2	1:A:25:HIS:O	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:223:LYS:HE2	4:C:962:HOH:O	2.14	0.47
1:C:76:ARG:HG3	1:C:77:SER:H	1.80	0.47
1:E:165:ASP:O	1:E:169:THR:HG23	2.15	0.47
1:B:111:HIS:HD2	1:B:134:LYS:H	1.62	0.46
1:D:251:LEU:HD13	1:F:76:ARG:HA	1.98	0.46
1:A:71:ASP:OD1	1:A:73:ASN:HB2	2.15	0.46
1:A:38:LYS:HE3	2:B:266:PEG:H32	1.97	0.46
1:E:5:GLU:HG3	1:E:14:PHE:CE1	2.51	0.46
1:E:130:ASP:OD1	1:E:131:GLU:HG3	2.16	0.46
1:C:76:ARG:CG	1:C:77:SER:H	2.29	0.46
1:C:28:LYS:HG3	4:C:1291:HOH:O	2.15	0.46
1:A:215:ILE:HG21	1:C:167:ASN:HB3	1.98	0.46
1:D:109:GLU:OE2	1:D:194:ARG:HG3	2.16	0.46
1:D:11:LEU:O	1:D:11:LEU:HD23	2.16	0.45
1:D:216:LYS:HD3	1:D:216:LYS:C	2.37	0.45
1:B:112:THR:HG22	1:B:117:LEU:HA	1.99	0.45
1:D:94:LEU:HD12	1:D:148:THR:HG22	1.99	0.45
1:F:18:GLY:HA2	1:F:52:ASP:O	2.17	0.45
1:F:10:TYR:HB3	1:F:26:ILE:HG12	1.99	0.45
1:D:14:PHE:O	1:D:20:ALA:HA	2.17	0.45
1:F:263:LYS:O	1:F:263:LYS:HG2	2.17	0.45
1:C:8:LYS:HB2	1:C:11:LEU:O	2.16	0.45
1:E:78:ALA:O	1:E:83:LYS:HE3	2.17	0.45
1:F:260:PRO:HD2	4:F:756:HOH:O	2.17	0.45
1:A:177:GLU:O	1:A:180:GLU:HG2	2.16	0.44
1:A:76:ARG:HG3	1:A:77:SER:N	2.32	0.44
1:F:145:LEU:HD12	1:F:145:LEU:C	2.37	0.44
1:A:9:GLN:NE2	4:A:787:HOH:O	2.49	0.44
1:B:21:GLU:HG2	1:B:59:MSE:HE3	2.00	0.44
1:B:241:LEU:O	1:B:247:ALA:HB2	2.17	0.44
1:C:192:GLU:HG2	1:C:196:ARG:HD2	1.99	0.44
1:D:126:ARG:H	1:D:185:ASN:ND2	2.10	0.44
1:B:62:VAL:CG1	1:B:63:PRO:HD2	2.48	0.44
1:F:192:GLU:O	1:F:196:ARG:HG3	2.17	0.44
1:A:10:TYR:CD1	1:A:26:ILE:HG23	2.53	0.44
1:D:36:PHE:HE2	1:D:119:MSE:HE1	1.82	0.44
1:E:265:ILE:HG22	1:E:265:ILE:O	2.17	0.44
2:F:267:PEG:H32	4:F:733:HOH:O	2.16	0.44
1:C:64:LYS:NZ	1:C:111:HIS:HE1	2.16	0.44
1:C:112:THR:O	1:C:135:ILE:HA	2.18	0.44
1:E:216:LYS:C	1:E:216:LYS:HD3	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:145:LEU:C	1:A:145:LEU:HD12	2.39	0.43
1:A:218:ALA:HB2	1:A:237:LEU:HD13	1.99	0.43
1:A:239:ASN:O	1:A:243:ARG:CD	2.65	0.43
1:D:145:LEU:C	1:D:145:LEU:HD12	2.39	0.43
1:E:112:THR:O	1:E:135:ILE:HA	2.19	0.43
1:D:112:THR:O	1:D:135:ILE:HA	2.18	0.43
1:F:27:ASN:OD1	1:F:28:LYS:N	2.51	0.43
1:E:21:GLU:HG3	4:E:822:HOH:O	2.18	0.43
1:F:64:LYS:CG	1:F:64:LYS:O	2.67	0.43
1:B:247:ALA:O	1:B:251:LEU:HG	2.18	0.43
1:A:210:TYR:HB3	4:A:376:HOH:O	2.18	0.43
1:B:92:GLU:O	1:B:96:LYS:HG3	2.18	0.43
1:D:71:ASP:OD1	1:D:73:ASN:HB2	2.18	0.43
1:A:216:LYS:HD3	1:A:216:LYS:C	2.39	0.43
1:D:255:LEU:HD12	1:F:76:ARG:HH11	1.83	0.43
1:E:126:ARG:H	1:E:185:ASN:ND2	2.12	0.43
1:B:88:LEU:O	1:B:92:GLU:HG3	2.19	0.43
1:D:25:HIS:O	1:D:25:HIS:CD2	2.72	0.43
1:D:259:GLN:HA	1:D:260:PRO:HD3	1.89	0.43
1:B:178:ALA:HB1	1:B:183:LEU:HB3	2.01	0.42
1:B:11:LEU:C	1:B:11:LEU:HD23	2.40	0.42
1:F:118:GLU:CD	1:F:148:THR:CG2	2.88	0.42
1:C:223:LYS:HE3	1:E:160:TYR:CE2	2.54	0.42
1:A:92:GLU:O	1:A:96:LYS:HG3	2.19	0.42
1:B:112:THR:O	1:B:135:ILE:HA	2.20	0.42
1:D:192:GLU:HB2	1:D:195:GLU:CG	2.49	0.42
1:F:118:GLU:OE1	1:F:148:THR:CG2	2.67	0.42
1:F:47:ILE:HG23	1:F:53:ILE:HG21	2.02	0.42
1:B:8:LYS:HD3	1:B:11:LEU:CD2	2.50	0.42
1:B:167:ASN:HB3	1:F:215:ILE:HG21	2.02	0.42
1:B:54:LYS:HG2	1:B:209:THR:CG2	2.48	0.42
1:D:3:ALA:O	1:D:5:GLU:HG3	2.20	0.42
1:B:216:LYS:CD	1:B:216:LYS:C	2.88	0.42
1:B:54:LYS:HG3	1:B:209:THR:HB	2.00	0.42
1:C:190:GLN:C	1:C:192:GLU:H	2.24	0.42
1:D:5:GLU:HG2	1:D:14:PHE:CD1	2.54	0.42
1:B:144:VAL:HA	1:F:241:LEU:HD23	2.01	0.42
1:F:8:LYS:HB2	1:F:11:LEU:O	2.20	0.42
1:A:78:ALA:O	1:A:83:LYS:HE3	2.20	0.41
1:B:10:TYR:HB2	1:B:39:GLU:OE1	2.20	0.41
1:E:54:LYS:HG3	1:E:209:THR:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:146:ALA:HB1	1:F:150:GLY:HA3	2.02	0.41
1:F:259:GLN:HA	1:F:260:PRO:HD3	1.91	0.41
1:F:159:GLY:HA2	2:F:266:PEG:O2	2.20	0.41
1:C:5:GLU:OE1	1:C:14:PHE:HE1	2.03	0.41
1:B:11:LEU:O	1:B:11:LEU:HD23	2.21	0.41
1:F:159:GLY:HA2	2:F:266:PEG:C2	2.50	0.41
1:D:186:ARG:HG2	1:D:186:ARG:HH11	1.86	0.41
1:E:173:ILE:HB	1:E:177:GLU:OE2	2.20	0.41
1:A:160:TYR:CD2	1:E:223:LYS:HE3	2.56	0.41
1:B:241:LEU:HA	1:B:241:LEU:HD12	1.92	0.41
1:F:5:GLU:CB	1:F:14:PHE:HD1	2.32	0.41
1:A:23:HIS:HB3	1:A:61:ASP:OD2	2.21	0.41
1:A:214:ASN:ND2	1:A:241:LEU:HD13	2.36	0.41
1:D:115:GLY:HA2	1:D:118:GLU:OE1	2.21	0.41
1:E:71:ASP:HB3	1:E:74:PHE:HB3	2.02	0.41
1:F:36:PHE:CZ	1:F:119:MSE:HE1	2.55	0.41
1:F:40:PHE:O	1:F:44:ILE:HG13	2.21	0.41
1:A:14:PHE:O	1:A:20:ALA:HA	2.21	0.41
1:E:30:ASN:HA	1:E:30:ASN:HD22	1.58	0.41
1:F:214:ASN:ND2	1:F:241:LEU:HD13	2.36	0.41
1:B:238:GLN:HA	1:B:238:GLN:HE21	1.85	0.40
1:A:59:MSE:HB3	1:A:107:CYS:HB3	2.03	0.40
1:A:128:MSE:O	1:A:187:VAL:HA	2.21	0.40
1:C:108:LEU:HB3	1:C:128:MSE:HE3	2.02	0.40
1:E:195:GLU:HB2	4:E:1242:HOH:O	2.20	0.40
1:A:76:ARG:HD3	1:E:251:LEU:HD23	2.03	0.40
1:A:88:LEU:O	1:A:92:GLU:HG3	2.22	0.40
1:C:31:SER:HA	1:C:69:GLY:O	2.21	0.40
1:E:4:VAL:HG23	1:E:15:LYS:O	2.22	0.40
1:C:16:GLU:HG2	1:C:17:ASP:OD2	2.21	0.40
1:C:113:VAL:HA	1:C:136:GLY:O	2.20	0.40
1:D:176:GLN:O	1:D:180:GLU:HG2	2.21	0.40
1:D:64:LYS:CD	1:D:64:LYS:N	2.84	0.40

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	262/265 (99%)	251 (96%)	10 (4%)	1 (0%)	34	29
1	B	259/265 (98%)	247 (95%)	12 (5%)	0	100	100
1	C	261/265 (98%)	245 (94%)	16 (6%)	0	100	100
1	D	262/265 (99%)	254 (97%)	7 (3%)	1 (0%)	34	29
1	E	260/265 (98%)	247 (95%)	12 (5%)	1 (0%)	34	29
1	F	261/265 (98%)	246 (94%)	15 (6%)	0	100	100
All	All	1565/1590 (98%)	1490 (95%)	72 (5%)	3 (0%)	47	46

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	63	PRO
1	D	63	PRO
1	E	63	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	219/213 (103%)	212 (97%)	7 (3%)	39	38
1	B	217/213 (102%)	212 (98%)	5 (2%)	50	53
1	C	218/213 (102%)	214 (98%)	4 (2%)	59	63
1	D	219/213 (103%)	217 (99%)	2 (1%)	78	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	E	218/213 (102%)	215 (99%)	3 (1%)	67	72
1	F	218/213 (102%)	214 (98%)	4 (2%)	59	63
All	All	1309/1278 (102%)	1284 (98%)	25 (2%)	57	61

All (25) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	11	LEU
1	A	28	LYS
1	A	79	ASP
1	A	183	LEU
1	A	216	LYS
1	A	241	LEU
1	A	243	ARG
1	B	11	LEU
1	B	183	LEU
1	B	216	LYS
1	B	238	GLN
1	B	241	LEU
1	C	73	ASN
1	C	75	LEU
1	C	196	ARG
1	C	255	LEU
1	D	11	LEU
1	D	63	PRO
1	E	11	LEU
1	E	37	TYR
1	E	196	ARG
1	F	4	VAL
1	F	11	LEU
1	F	28	LYS
1	F	238	GLN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (32) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	9	GLN
1	A	25	HIS
1	A	111	HIS
1	A	152	GLN

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Mol	Chain	Res	Type
1	A	239	ASN
1	B	111	HIS
1	B	185	ASN
1	B	206	ASN
1	B	214	ASN
1	B	221	ASN
1	B	238	GLN
1	B	259	GLN
1	C	25	HIS
1	C	111	HIS
1	C	214	ASN
1	D	25	HIS
1	D	30	ASN
1	D	111	HIS
1	D	185	ASN
1	D	206	ASN
1	E	25	HIS
1	E	30	ASN
1	E	111	HIS
1	E	185	ASN
1	E	206	ASN
1	E	261	ASN
1	F	9	GLN
1	F	25	HIS
1	F	111	HIS
1	F	185	ASN
1	F	206	ASN
1	F	238	GLN

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

8 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
2	PEG	B	266	-	6,6,6	0.49	0	5,5,5	0.31	0
2	PEG	C	268	-	6,6,6	0.53	0	5,5,5	0.33	0
2	PEG	F	266	-	6,6,6	0.48	0	5,5,5	0.32	0
3	EDO	C	266	-	3,3,3	0.42	0	2,2,2	0.40	0
2	PEG	B	267	-	6,6,6	0.51	0	5,5,5	0.33	0
2	PEG	F	267	-	6,6,6	0.54	0	5,5,5	0.33	0
3	EDO	D	266	-	3,3,3	0.47	0	2,2,2	0.37	0
2	PEG	C	267	-	6,6,6	0.50	0	5,5,5	0.33	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
2	PEG	B	266	-	-	2/4/4/4	-
2	PEG	C	268	-	-	4/4/4/4	-
2	PEG	F	266	-	-	2/4/4/4	-
3	EDO	C	266	-	-	1/1/1/1	-
2	PEG	B	267	-	-	2/4/4/4	-
2	PEG	F	267	-	-	3/4/4/4	-
3	EDO	D	266	-	-	0/1/1/1	-
2	PEG	C	267	-	-	3/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (17) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	266	PEG	O1-C1-C2-O2
2	F	266	PEG	O1-C1-C2-O2
2	B	267	PEG	O1-C1-C2-O2
2	C	267	PEG	O2-C3-C4-O4
2	B	266	PEG	O2-C3-C4-O4
2	B	267	PEG	O2-C3-C4-O4
2	F	267	PEG	O1-C1-C2-O2
2	F	267	PEG	O2-C3-C4-O4
2	C	267	PEG	O1-C1-C2-O2
2	C	268	PEG	O1-C1-C2-O2
2	C	268	PEG	C4-C3-O2-C2
2	C	268	PEG	O2-C3-C4-O4
2	C	268	PEG	C1-C2-O2-C3
2	C	267	PEG	C4-C3-O2-C2
3	C	266	EDO	O1-C1-C2-O2
2	F	266	PEG	C4-C3-O2-C2
2	F	267	PEG	C1-C2-O2-C3

There are no ring outliers.

5 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	266	PEG	3	0
2	F	266	PEG	3	0
2	B	267	PEG	3	0
2	F	267	PEG	1	0
2	C	267	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	258/265 (97%)	-0.04	13 (5%) 28 37	11, 22, 61, 98	0
1	B	255/265 (96%)	0.02	6 (2%) 59 67	8, 25, 55, 84	0
1	C	257/265 (96%)	0.09	11 (4%) 35 45	8, 25, 62, 87	0
1	D	258/265 (97%)	-0.35	4 (1%) 72 77	9, 19, 46, 78	0
1	E	256/265 (96%)	-0.20	6 (2%) 60 68	6, 20, 49, 75	0
1	F	257/265 (96%)	0.16	15 (5%) 23 31	11, 26, 57, 100	0
All	All	1541/1590 (96%)	-0.05	55 (3%) 42 51	6, 23, 57, 100	0

All (55) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	3	ALA	11.0
1	A	3	ALA	10.0
1	E	77	SER	7.6
1	F	4	VAL	7.2
1	F	6	THR	6.3
1	C	3	ALA	5.4
1	C	4	VAL	5.3
1	A	4	VAL	5.1
1	A	76	ARG	4.9
1	A	75	LEU	4.9
1	A	5	GLU	4.8
1	C	5	GLU	4.8
1	A	2	THR	4.7
1	B	63	PRO	4.4
1	A	255	LEU	4.3
1	F	7	LYS	3.8
1	F	5	GLU	3.7
1	E	6	THR	3.2
1	A	254	PHE	3.0

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Mol	Chain	Res	Type	RSRZ
1	E	78	ALA	3.0
1	C	191	ALA	2.9
1	B	75	LEU	2.9
1	F	27	ASN	2.8
1	A	7	LYS	2.8
1	E	7	LYS	2.8
1	D	2	THR	2.7
1	D	5	GLU	2.7
1	A	8	LYS	2.7
1	F	259	GLN	2.6
1	A	77	SER	2.5
1	B	77	SER	2.4
1	F	265	ILE	2.4
1	A	259	GLN	2.4
1	C	255	LEU	2.4
1	B	259	GLN	2.4
1	C	65	PHE	2.4
1	F	255	LEU	2.4
1	C	75	LEU	2.3
1	F	77	SER	2.3
1	E	255	LEU	2.3
1	D	76	ARG	2.3
1	C	6	THR	2.2
1	F	254	PHE	2.2
1	F	63	PRO	2.2
1	A	6	THR	2.2
1	F	191	ALA	2.2
1	E	4	VAL	2.2
1	F	261	ASN	2.2
1	B	73	ASN	2.1
1	D	3	ALA	2.1
1	C	73	ASN	2.1
1	C	76	ARG	2.1
1	F	251	LEU	2.1
1	B	76	ARG	2.0
1	C	79	ASP	2.0

6.2 Non-standard residues in protein, DNA, RNA chains

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
2	PEG	C	268	7/7	0.63	0.28	49,49,53,54	0
2	PEG	F	267	7/7	0.71	0.29	45,50,52,52	0
3	EDO	D	266	4/4	0.76	0.18	45,48,52,52	0
2	PEG	B	266	7/7	0.81	0.24	46,48,53,54	0
2	PEG	B	267	7/7	0.83	0.16	50,52,55,56	0
2	PEG	C	267	7/7	0.85	0.13	52,54,55,58	0
2	PEG	F	266	7/7	0.86	0.22	34,40,42,42	0
3	EDO	C	266	4/4	0.87	0.15	45,50,51,52	0

6.5 Other polymers [i](#)

There are no such residues in this entry.