



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 13, 2024 – 02:47 AM EDT

PDB ID : 3KOB
Title : DTD from Plasmodium falciparum in complex with D-Glutamic acid
Authors : Manickam, Y.; Bhatt, T.K.; Sharma, A.
Deposited on : 2009-11-13
Resolution : 2.99 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:

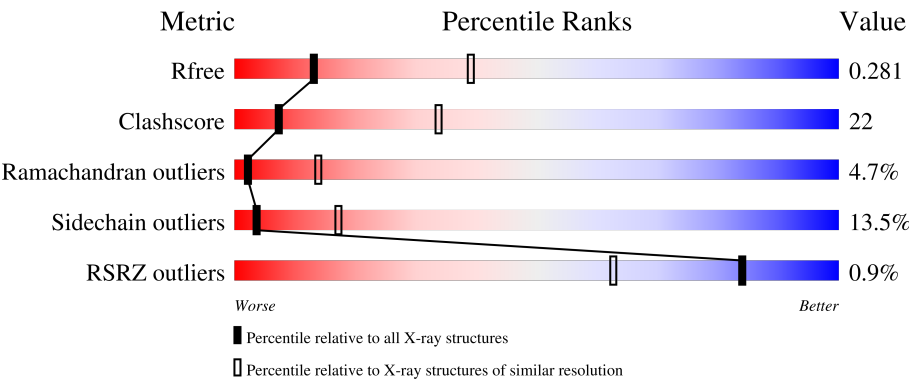
MolProbity	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	2.36.2
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.99 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	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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	164	<div><div></div><div>55%32%••9%</div></div>
1	B	164	<div><div></div><div>43%41%7%•8%</div></div>
1	C	164	<div><div>2%</div><div>46%38%13%•</div></div>
1	D	164	<div><div>1%</div><div>45%41%6%•8%</div></div>
1	E	164	<div><div>2%</div><div>44%37%9%•9%</div></div>

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Mol	Chain	Length	Quality of chain
1	F	164	<p>2% 43% 40% 8% 9%</p>

2 Entry composition [i](#)

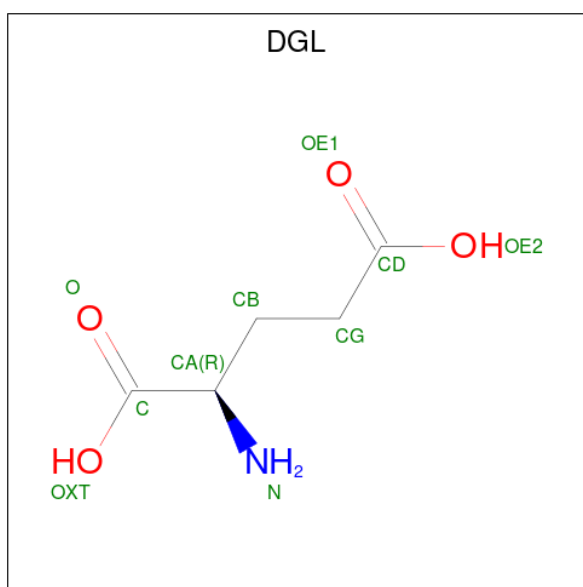
There are 2 unique types of molecules in this entry. The entry contains 7354 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 D-tyrosyl-tRNA(Tyr) deacylase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	150	Total	C	N	O	S	0	0	0
			1224	789	207	225	3			
1	B	151	Total	C	N	O	S	0	0	0
			1230	793	207	227	3			
1	C	160	Total	C	N	O	S	0	0	0
			1253	807	211	232	3			
1	D	151	Total	C	N	O	S	0	0	0
			1226	788	207	228	3			
1	E	149	Total	C	N	O	S	0	0	0
			1198	771	200	224	3			
1	F	150	Total	C	N	O	S	0	0	0
			1213	781	203	226	3			

- Molecule 2 is D-GLUTAMIC ACID (three-letter code: DGL) (formula: C₅H₉NO₄).

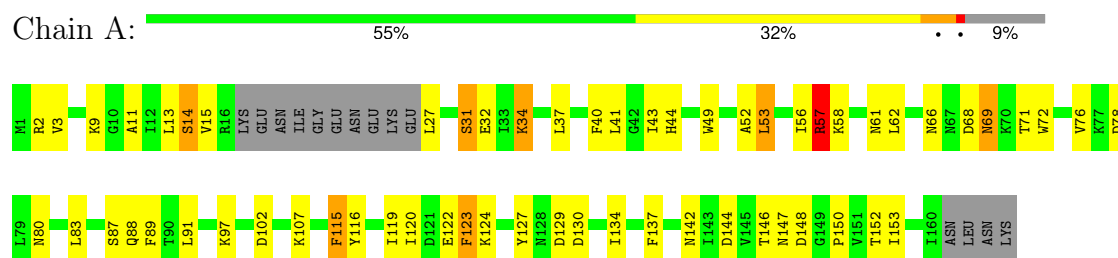


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	B	1	Total	C	N	O	0	0
			10	5	1	4		

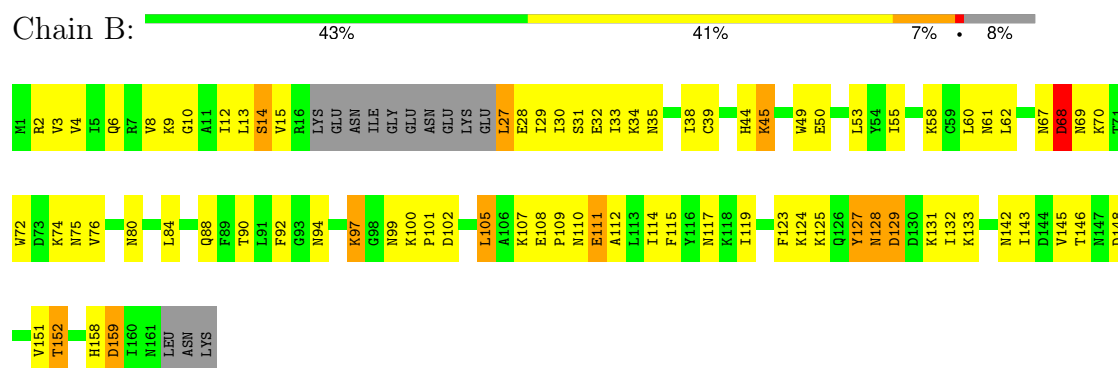
3 Residue-property plots

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.

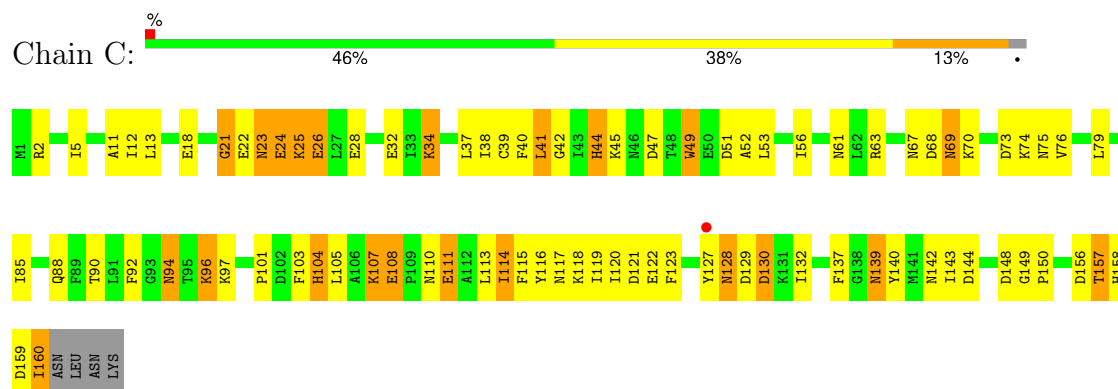
- Molecule 1: D-tyrosyl-tRNA(Tyr) deacylase



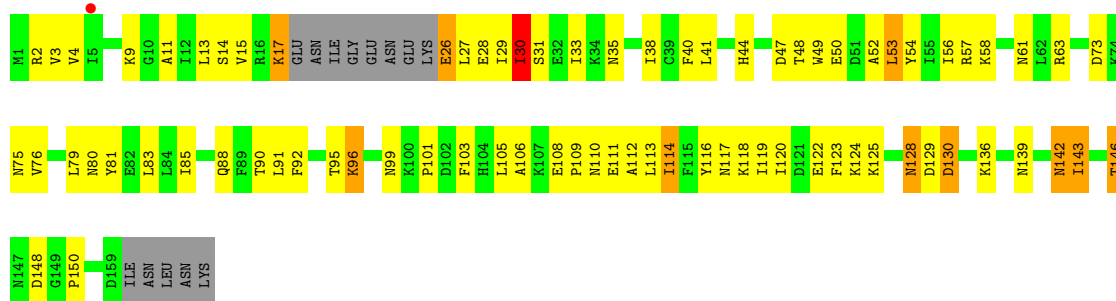
- Molecule 1: D-tyrosyl-tRNA(Tyr) deacylase



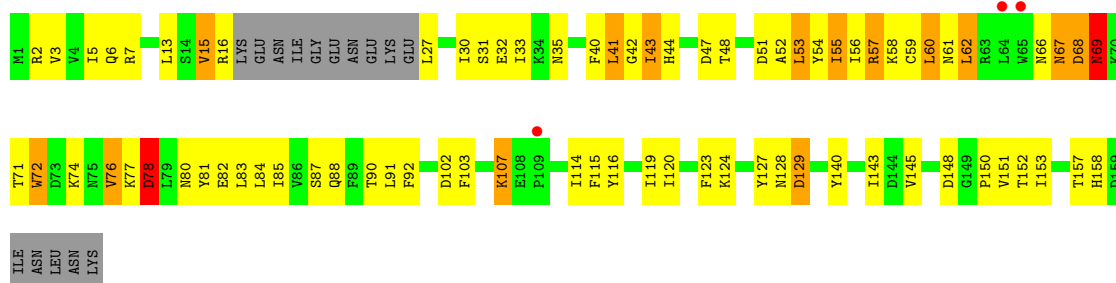
- Molecule 1: D-tyrosyl-tRNA(Tyr) deacylase



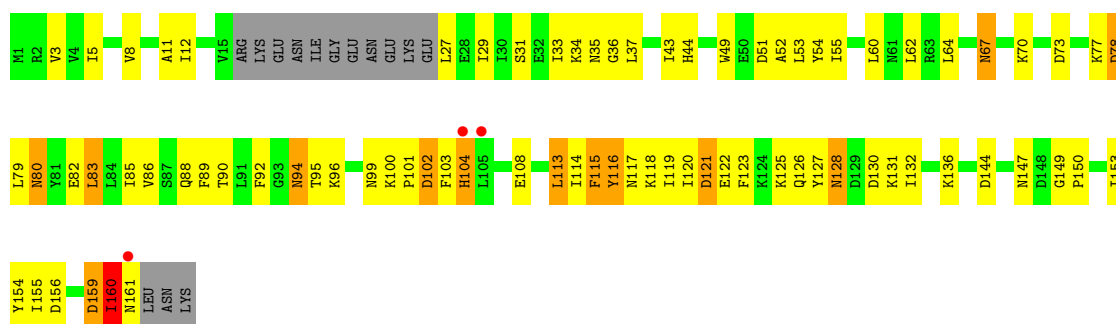
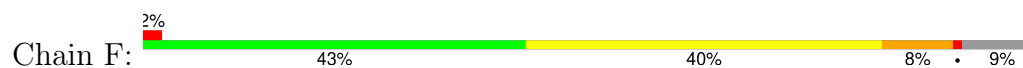
- Molecule 1: D-tyrosyl-tRNA(Tyr) deacylase



• Molecule 1: D-tyrosyl-tRNA(Tyr) deacylase



• Molecule 1: D-tyrosyl-tRNA(Tyr) deacylase



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	51.95Å 54.66Å 92.62Å 106.86° 102.10° 94.35°	Depositor
Resolution (Å)	30.00 – 2.99 48.86 – 2.99	Depositor EDS
% Data completeness (in resolution range)	97.0 (30.00-2.99) 96.9 (48.86-2.99)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.85 (at 3.01Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.196 , 0.286 0.199 , 0.281	Depositor DCC
R_{free} test set	960 reflections (5.18%)	wwPDB-VP
Wilson B-factor (Å ²)	74.0	Xtriage
Anisotropy	0.261	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 67.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	7354	wwPDB-VP
Average B, all atoms (Å ²)	81.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.11% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: DGL

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	0.64	0/1247	0.80	0/1686
1	B	0.67	0/1253	0.81	1/1694 (0.1%)
1	C	0.61	0/1277	0.75	0/1734
1	D	0.62	0/1249	0.76	0/1690
1	E	0.57	0/1221	0.70	0/1656
1	F	0.63	0/1236	0.73	0/1675
All	All	0.62	0/7483	0.76	1/10135 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2	ARG	NE-CZ-NH2	-6.02	117.29	120.30

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	1224	0	1221	43	0
1	B	1230	0	1227	61	0
1	C	1253	0	1204	72	0
1	D	1226	0	1207	57	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	E	1198	0	1166	64	0
1	F	1213	0	1192	56	0
2	B	10	0	7	2	0
All	All	7354	0	7224	326	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 22.

All (326) 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:C:23:ASN:HA	1:C:24:GLU:CB	1.78	1.13
1:C:113:LEU:O	1:C:117:ASN:ND2	1.82	1.11
1:C:23:ASN:CA	1:C:24:GLU:CB	2.29	1.08
1:D:63:ARG:HG3	1:D:75:ASN:HB3	1.39	1.03
1:F:160:ILE:HG23	1:F:161:ASN:H	1.15	1.01
1:F:160:ILE:CG2	1:F:161:ASN:H	1.86	0.89
1:C:23:ASN:N	1:C:24:GLU:CB	2.36	0.89
1:D:116:TYR:O	1:D:120:ILE:HG12	1.72	0.88
1:E:74:LYS:HD2	1:E:78:ASP:HB3	1.59	0.85
1:D:108:GLU:HG2	1:D:109:PRO:HD2	1.58	0.83
1:C:113:LEU:HD12	1:C:117:ASN:HD21	1.44	0.83
1:B:50:GLU:HA	1:B:53:LEU:HD12	1.60	0.82
1:D:48:THR:O	1:D:50:GLU:N	2.15	0.79
1:E:68:ASP:O	1:E:69:ASN:HB2	1.83	0.78
1:A:147:ASN:HB3	1:A:150:PRO:HB3	1.63	0.78
1:B:143:ILE:HG22	1:B:145:VAL:HG23	1.64	0.78
1:C:11:ALA:HA	1:C:144:ASP:O	1.84	0.78
1:E:42:GLY:C	1:E:92:PHE:HE2	1.86	0.78
1:F:160:ILE:HG23	1:F:161:ASN:N	1.96	0.78
1:B:15:VAL:O	1:B:27:LEU:HB3	1.85	0.77
1:F:116:TYR:HD2	1:F:117:ASN:OD1	1.68	0.76
1:D:128:ASN:OD1	1:D:130:ASP:N	2.19	0.75
1:B:72:TRP:CZ2	2:B:165:DGL:N	2.56	0.74
1:F:128:ASN:ND2	1:F:130:ASP:H	1.84	0.74
1:A:150:PRO:HG3	1:B:143:ILE:HD12	1.67	0.74
1:E:13:LEU:HB3	1:E:31:SER:HB2	1.70	0.73
1:D:110:ASN:O	1:D:114:ILE:HG23	1.90	0.71
1:B:108:GLU:HB3	1:B:111:GLU:OE1	1.90	0.71
1:C:104:HIS:CB	1:C:105:LEU:HD12	2.20	0.71
1:B:128:ASN:OD1	1:B:131:LYS:HG2	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:44:HIS:HB2	1:D:92:PHE:CZ	2.26	0.71
1:F:43:ILE:HD13	1:F:115:PHE:HD2	1.54	0.70
1:F:160:ILE:CG2	1:F:161:ASN:N	2.48	0.70
1:E:44:HIS:CD2	1:E:158:HIS:CE1	2.80	0.69
1:D:83:LEU:HB3	1:D:85:ILE:HD11	1.73	0.68
1:D:44:HIS:HB3	1:D:47:ASP:OD1	1.94	0.67
1:F:60:LEU:HB3	1:F:77:LYS:HE2	1.75	0.67
1:E:16:ARG:HA	1:E:27:LEU:HD23	1.77	0.66
1:E:143:ILE:HG22	1:E:145:VAL:HG23	1.76	0.66
1:B:6:GLN:HA	1:B:151:VAL:O	1.96	0.66
1:B:72:TRP:CH2	2:B:165:DGL:N	2.65	0.65
1:A:152:THR:HB	1:B:88:GLN:HE21	1.60	0.65
1:C:150:PRO:HG2	1:D:88:GLN:HE21	1.60	0.65
1:B:44:HIS:HB2	1:B:92:PHE:CZ	2.32	0.65
1:C:143:ILE:HD12	1:D:150:PRO:HG3	1.79	0.64
1:A:61:ASN:HB3	1:B:99:ASN:OD1	1.97	0.64
1:D:128:ASN:OD1	1:D:128:ASN:C	2.36	0.64
1:D:63:ARG:CG	1:D:75:ASN:HB3	2.21	0.64
1:E:13:LEU:HG	1:E:143:ILE:HG12	1.78	0.64
1:C:42:GLY:O	1:C:92:PHE:HE2	1.81	0.64
1:E:6:GLN:HA	1:E:151:VAL:O	1.98	0.64
1:F:102:ASP:OD1	1:F:104:HIS:HB2	1.99	0.63
1:C:157:THR:C	1:C:159:ASP:H	2.00	0.63
1:C:21:GLY:O	1:C:23:ASN:N	2.30	0.62
1:F:116:TYR:O	1:F:120:ILE:HG12	1.99	0.62
1:D:142:ASN:C	1:D:142:ASN:HD22	2.03	0.62
1:E:42:GLY:O	1:E:92:PHE:HE2	1.82	0.62
1:A:150:PRO:HG3	1:B:143:ILE:CD1	2.29	0.62
1:E:43:ILE:HD12	1:E:43:ILE:H	1.65	0.62
1:D:142:ASN:C	1:D:142:ASN:ND2	2.54	0.61
1:E:44:HIS:HD2	1:E:158:HIS:CE1	2.17	0.61
1:A:37:LEU:HB2	1:A:83:LEU:HD23	1.83	0.61
1:F:11:ALA:HB3	1:F:33:ILE:HG12	1.81	0.61
1:C:5:ILE:HG23	1:C:37:LEU:HD22	1.83	0.61
1:D:122:GLU:OE1	1:D:125:LYS:HD2	2.01	0.61
1:B:159:ASP:OD1	1:B:159:ASP:N	2.33	0.60
1:C:5:ILE:CG2	1:C:37:LEU:HD22	2.32	0.60
1:B:38:ILE:HD12	1:B:84:LEU:HD23	1.84	0.60
1:E:7:ARG:HB2	1:E:151:VAL:HB	1.84	0.60
1:F:44:HIS:HB2	1:F:92:PHE:CZ	2.37	0.60
1:F:83:LEU:HD13	1:F:85:ILE:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:76:VAL:HG23	1:D:81:TYR:HB2	1.83	0.59
1:E:42:GLY:C	1:E:92:PHE:CE2	2.74	0.59
1:C:104:HIS:HB3	1:C:105:LEU:HD12	1.83	0.59
1:D:13:LEU:HD23	1:D:14:SER:N	2.18	0.59
1:E:68:ASP:O	1:E:69:ASN:CB	2.47	0.59
1:A:66:ASN:HD22	1:A:66:ASN:H	1.49	0.59
1:B:94:ASN:HB3	1:B:102:ASP:HB3	1.84	0.59
1:C:108:GLU:OE1	1:C:111:GLU:HB2	2.03	0.59
1:C:157:THR:O	1:C:159:ASP:N	2.34	0.59
1:C:148:ASP:C	1:C:150:PRO:HA	2.23	0.58
1:B:8:VAL:HG11	1:B:145:VAL:HG13	1.83	0.58
1:A:52:ALA:O	1:A:56:ILE:HG13	2.04	0.58
1:B:115:PHE:O	1:B:119:ILE:HG13	2.03	0.58
1:D:3:VAL:HA	1:D:40:PHE:O	2.04	0.57
1:C:104:HIS:HB2	1:C:105:LEU:HD12	1.86	0.57
1:C:116:TYR:O	1:C:120:ILE:HG12	2.05	0.57
1:C:51:ASP:HA	1:C:157:THR:HG21	1.87	0.56
1:E:67:ASN:HB2	1:E:74:LYS:HG2	1.86	0.56
1:F:147:ASN:HB3	1:F:150:PRO:HB3	1.88	0.56
1:A:122:GLU:OE1	1:A:122:GLU:HA	2.04	0.56
1:C:61:ASN:HA	1:C:75:ASN:ND2	2.21	0.56
1:F:154:TYR:O	1:F:155:ILE:HG13	2.06	0.56
1:D:63:ARG:HB3	1:D:73:ASP:O	2.06	0.56
1:B:35:ASN:H	1:B:35:ASN:HD22	1.52	0.56
1:D:95:THR:O	1:D:96:LYS:C	2.45	0.55
1:B:80:ASN:HB2	1:D:129:ASP:OD1	2.07	0.55
1:B:12:ILE:O	1:B:143:ILE:HA	2.07	0.55
1:F:78:ASP:C	1:F:80:ASN:H	2.10	0.55
1:D:114:ILE:HD12	1:D:118:LYS:HD2	1.89	0.55
1:B:105:LEU:H	1:B:105:LEU:HD12	1.72	0.54
1:F:36:GLY:HA3	1:F:82:GLU:O	2.08	0.54
1:F:60:LEU:HD23	1:F:83:LEU:HD21	1.89	0.54
1:E:62:LEU:HG	1:F:99:ASN:HD22	1.72	0.54
1:F:35:ASN:H	1:F:35:ASN:HD22	1.56	0.54
1:D:113:LEU:O	1:D:117:ASN:OD1	2.25	0.54
1:D:56:ILE:HD11	1:D:119:ILE:HG23	1.88	0.54
1:E:127:TYR:O	1:E:128:ASN:HB2	2.08	0.54
1:E:56:ILE:HG12	1:E:123:PHE:CE2	2.42	0.54
1:F:159:ASP:OD1	1:F:159:ASP:N	2.40	0.54
1:C:88:GLN:NE2	1:C:90:THR:OG1	2.41	0.53
1:F:118:LYS:HA	1:F:121:ASP:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:29:ILE:CG2	1:B:30:ILE:N	2.72	0.53
1:D:38:ILE:HG23	1:D:38:ILE:O	2.07	0.53
1:F:53:LEU:O	1:F:54:TYR:C	2.46	0.53
1:A:71:THR:O	1:B:100:LYS:NZ	2.41	0.53
1:A:34:LYS:HE3	1:A:34:LYS:HA	1.90	0.53
1:C:44:HIS:HB3	1:C:47:ASP:OD1	2.08	0.53
1:E:67:ASN:C	1:E:67:ASN:HD22	2.12	0.53
1:C:45:LYS:HA	1:C:107:LYS:HE3	1.90	0.53
1:B:108:GLU:CD	1:B:110:ASN:H	2.11	0.53
1:F:62:LEU:HB3	1:F:64:LEU:HG	1.91	0.53
1:C:160:ILE:HD13	1:C:160:ILE:N	2.23	0.53
1:E:3:VAL:HA	1:E:40:PHE:O	2.09	0.53
1:F:12:ILE:HG23	1:F:29:ILE:HG22	1.91	0.53
1:F:43:ILE:CD1	1:F:115:PHE:HD2	2.20	0.52
1:A:2:ARG:NH1	1:A:91:LEU:O	2.39	0.52
1:E:16:ARG:HG3	1:E:27:LEU:HD21	1.92	0.52
1:A:49:TRP:HE1	1:F:67:ASN:HD21	1.57	0.52
1:B:3:VAL:CG1	1:B:55:ILE:HD12	2.40	0.52
1:B:97:LYS:HG3	1:B:97:LYS:O	2.08	0.52
1:F:82:GLU:HA	1:F:131:LYS:HB3	1.92	0.52
1:D:122:GLU:O	1:D:125:LYS:HB2	2.10	0.52
1:C:24:GLU:O	1:C:25:LYS:CB	2.57	0.52
1:B:14:SER:HA	1:B:29:ILE:HA	1.92	0.51
1:E:77:LYS:HA	1:E:127:TYR:CE1	2.45	0.51
1:C:23:ASN:N	1:C:24:GLU:CA	2.72	0.51
1:C:143:ILE:CD1	1:D:150:PRO:HG3	2.40	0.51
1:E:16:ARG:HG3	1:E:27:LEU:CD2	2.40	0.51
1:E:124:LYS:HA	1:E:128:ASN:O	2.09	0.51
1:B:4:VAL:O	1:B:39:CYS:HA	2.10	0.51
1:B:58:LYS:O	1:B:62:LEU:HD12	2.10	0.51
1:F:67:ASN:HB3	1:F:73:ASP:HB3	1.92	0.51
1:E:53:LEU:HD13	1:E:56:ILE:HD12	1.93	0.51
1:A:129:ASP:OD2	1:A:130:ASP:N	2.44	0.50
1:F:123:PHE:HB3	1:F:132:ILE:HD12	1.92	0.50
1:C:34:LYS:HA	1:C:34:LYS:HE3	1.92	0.50
1:F:3:VAL:HB	1:F:55:ILE:HD12	1.92	0.50
1:A:57:ARG:HD2	1:F:80:ASN:HB2	1.93	0.50
1:D:136:LYS:O	1:D:139:ASN:HB2	2.11	0.50
1:D:26:GLU:HG3	1:D:27:LEU:N	2.27	0.50
1:A:152:THR:CB	1:B:88:GLN:HE21	2.24	0.49
1:D:52:ALA:O	1:D:53:LEU:C	2.49	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:51:ASP:O	1:F:52:ALA:C	2.50	0.49
1:B:75:ASN:C	1:B:75:ASN:OD1	2.51	0.49
1:E:74:LYS:HD2	1:E:78:ASP:CB	2.37	0.49
1:E:62:LEU:HD21	1:F:95:THR:HG21	1.95	0.49
1:C:63:ARG:HG2	1:C:73:ASP:O	2.13	0.49
1:D:29:ILE:HG22	1:D:30:ILE:N	2.27	0.49
1:A:144:ASP:OD1	1:B:146:THR:HG23	2.12	0.49
1:D:109:PRO:HA	1:D:112:ALA:HB3	1.94	0.49
1:E:85:ILE:O	1:E:116:TYR:OH	2.28	0.49
1:C:94:ASN:O	1:C:101:PRO:HA	2.12	0.48
1:E:60:LEU:HD22	1:E:127:TYR:HB2	1.95	0.48
1:A:71:THR:O	1:A:72:TRP:C	2.52	0.48
1:B:45:LYS:O	1:B:107:LYS:NZ	2.46	0.48
1:D:9:LYS:HG3	1:D:148:ASP:HB2	1.95	0.48
1:D:54:TYR:O	1:D:57:ARG:N	2.46	0.48
1:C:38:ILE:HG23	1:C:38:ILE:O	2.13	0.48
1:D:2:ARG:NH1	1:D:91:LEU:O	2.42	0.48
1:A:56:ILE:HA	1:A:123:PHE:CZ	2.48	0.48
1:C:150:PRO:HG2	1:D:88:GLN:NE2	2.27	0.48
1:D:54:TYR:HD1	1:D:57:ARG:NH2	2.11	0.48
1:E:71:THR:O	1:E:72:TRP:C	2.51	0.48
1:A:68:ASP:O	1:A:69:ASN:HB3	2.13	0.48
1:E:2:ARG:O	1:E:41:LEU:HD23	2.14	0.48
1:E:148:ASP:C	1:E:150:PRO:HA	2.34	0.48
1:B:9:LYS:HG3	1:B:148:ASP:HB2	1.95	0.47
1:A:9:LYS:HB2	1:A:146:THR:HB	1.96	0.47
1:D:4:VAL:HG12	1:D:4:VAL:O	2.13	0.47
1:E:54:TYR:HE1	1:E:58:LYS:HE3	1.79	0.47
1:C:144:ASP:OD1	1:D:146:THR:HG23	2.14	0.47
1:C:149:GLY:N	1:C:150:PRO:HA	2.29	0.47
1:C:123:PHE:HB3	1:C:132:ILE:HD12	1.95	0.47
1:E:116:TYR:O	1:E:120:ILE:HG12	2.15	0.47
1:E:150:PRO:HB2	1:F:88:GLN:HE22	1.80	0.47
1:E:152:THR:HG1	1:F:88:GLN:HE21	1.60	0.47
1:A:152:THR:HB	1:B:88:GLN:NE2	2.28	0.47
1:F:128:ASN:HD21	1:F:130:ASP:H	1.59	0.47
1:F:156:ASP:HB3	1:F:159:ASP:OD1	2.15	0.47
1:C:40:PHE:HB3	1:C:88:GLN:HG3	1.97	0.46
1:C:61:ASN:HB3	1:D:99:ASN:OD1	2.15	0.46
1:D:124:LYS:HB3	1:D:129:ASP:HA	1.96	0.46
1:B:108:GLU:OE1	1:B:110:ASN:HB2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:103:PHE:O	1:C:105:LEU:N	2.48	0.46
1:D:17:LYS:HD2	1:D:28:GLU:HB2	1.97	0.46
1:E:7:ARG:HH21	1:E:148:ASP:CG	2.19	0.46
1:A:58:LYS:HD2	1:A:62:LEU:HD21	1.98	0.46
1:B:61:ASN:HA	1:B:75:ASN:HD22	1.81	0.46
1:C:114:ILE:O	1:C:118:LYS:HG3	2.16	0.46
1:A:66:ASN:H	1:A:66:ASN:ND2	2.13	0.46
1:C:139:ASN:HD22	1:C:139:ASN:N	2.14	0.46
1:D:30:ILE:HG13	1:D:31:SER:N	2.31	0.46
1:E:76:VAL:HG11	1:E:83:LEU:HG	1.98	0.46
1:F:128:ASN:CG	1:F:130:ASP:H	2.18	0.46
1:C:67:ASN:O	1:C:70:LYS:O	2.34	0.46
1:C:140:TYR:C	1:C:140:TYR:CD2	2.89	0.46
1:E:74:LYS:HD3	1:E:74:LYS:HA	1.67	0.46
1:A:153:ILE:HD13	1:B:90:THR:O	2.15	0.46
1:A:72:TRP:O	1:B:100:LYS:NZ	2.45	0.46
1:D:79:LEU:HD13	1:D:81:TYR:CE2	2.51	0.46
1:F:49:TRP:O	1:F:52:ALA:HB3	2.16	0.46
1:B:49:TRP:NE1	1:B:53:LEU:HD21	2.31	0.46
1:C:68:ASP:O	1:C:69:ASN:CB	2.64	0.46
1:A:44:HIS:O	1:A:107:LYS:HD2	2.16	0.45
1:E:119:ILE:O	1:E:123:PHE:HD2	2.00	0.45
1:B:67:ASN:O	1:B:68:ASP:HB2	2.16	0.45
1:F:100:LYS:HA	1:F:101:PRO:HD3	1.74	0.45
1:A:49:TRP:CD1	1:A:53:LEU:HD21	2.52	0.45
1:C:49:TRP:CZ2	1:C:122:GLU:HG2	2.51	0.45
1:A:148:ASP:C	1:A:150:PRO:HA	2.37	0.45
1:E:13:LEU:HD22	1:E:30:ILE:HD11	1.99	0.45
1:F:43:ILE:HD13	1:F:115:PHE:CD2	2.43	0.45
1:C:96:LYS:H	1:C:96:LYS:HD2	1.82	0.45
1:C:108:GLU:OE2	1:C:110:ASN:HB2	2.17	0.45
1:C:75:ASN:OD1	1:C:75:ASN:C	2.55	0.45
1:E:52:ALA:O	1:E:56:ILE:HG13	2.16	0.45
1:A:116:TYR:O	1:A:119:ILE:HB	2.17	0.44
1:C:12:ILE:HG12	1:C:32:GLU:HG3	1.98	0.44
1:E:5:ILE:HD12	1:E:153:ILE:HB	1.99	0.44
1:D:57:ARG:O	1:D:61:ASN:HB2	2.17	0.44
1:F:8:VAL:HG21	1:F:33:ILE:HD11	1.98	0.44
1:E:15:VAL:HG12	1:E:140:TYR:O	2.18	0.44
1:F:113:LEU:O	1:F:114:ILE:C	2.55	0.44
1:A:61:ASN:ND2	1:F:80:ASN:HB3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:49:TRP:HE1	1:B:53:LEU:HD21	1.83	0.44
1:B:109:PRO:HA	1:B:112:ALA:HB3	2.00	0.44
1:C:56:ILE:HD11	1:C:119:ILE:HG23	1.99	0.44
1:D:54:TYR:CD1	1:D:57:ARG:NH2	2.85	0.44
1:B:35:ASN:N	1:B:35:ASN:ND2	2.66	0.43
1:F:94:ASN:ND2	1:F:96:LYS:H	2.16	0.43
1:A:13:LEU:HB3	1:A:31:SER:HB2	2.00	0.43
1:C:139:ASN:HD22	1:C:139:ASN:H	1.66	0.43
1:D:58:LYS:HA	1:D:58:LYS:HD3	1.84	0.43
1:B:127:TYR:C	1:B:127:TYR:CD1	2.91	0.43
1:C:115:PHE:O	1:C:119:ILE:HG13	2.18	0.43
1:D:101:PRO:HB2	1:D:103:PHE:CZ	2.54	0.43
1:E:58:LYS:O	1:E:62:LEU:HD12	2.18	0.43
1:A:78:ASP:HA	1:F:34:LYS:HE3	2.00	0.43
1:B:15:VAL:C	1:B:27:LEU:HB3	2.38	0.43
1:C:111:GLU:HA	1:C:114:ILE:CD1	2.48	0.43
1:F:101:PRO:HB2	1:F:103:PHE:CZ	2.54	0.43
1:A:3:VAL:HA	1:A:40:PHE:O	2.18	0.43
1:D:11:ALA:HB3	1:D:33:ILE:HG12	2.00	0.43
1:C:160:ILE:HD13	1:C:160:ILE:H	1.82	0.43
1:F:149:GLY:N	1:F:150:PRO:HA	2.33	0.43
1:B:127:TYR:CZ	1:B:131:LYS:HG3	2.54	0.43
1:C:41:LEU:O	1:C:88:GLN:N	2.43	0.43
1:C:25:LYS:O	1:C:26:GLU:CB	2.66	0.43
1:C:38:ILE:O	1:C:38:ILE:CG2	2.67	0.43
1:E:62:LEU:HD21	1:F:95:THR:CG2	2.49	0.43
1:D:76:VAL:CG2	1:D:81:TYR:HB2	2.47	0.43
1:E:13:LEU:HG	1:E:143:ILE:CG1	2.46	0.42
1:A:43:ILE:HG21	1:A:115:PHE:HD1	1.84	0.42
1:B:123:PHE:HB3	1:B:132:ILE:HG13	2.01	0.42
1:B:124:LYS:HG2	1:B:129:ASP:HA	2.01	0.42
1:D:44:HIS:CD2	1:D:105:LEU:O	2.72	0.42
1:E:43:ILE:HD12	1:E:43:ILE:N	2.33	0.42
1:C:52:ALA:O	1:C:56:ILE:HG13	2.20	0.42
1:C:114:ILE:H	1:C:114:ILE:HG13	1.38	0.42
1:E:47:ASP:HA	1:E:51:ASP:OD2	2.19	0.42
1:A:49:TRP:NE1	1:A:53:LEU:HD21	2.34	0.42
1:A:89:PHE:C	1:A:91:LEU:N	2.73	0.42
1:A:120:ILE:O	1:A:124:LYS:HG3	2.20	0.42
1:D:90:THR:C	1:D:92:PHE:N	2.73	0.42
1:A:11:ALA:O	1:A:32:GLU:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:7:ARG:HH11	1:E:151:VAL:HG21	1.84	0.42
1:E:33:ILE:HB	1:E:82:GLU:HB2	2.02	0.42
1:E:40:PHE:HD1	1:E:88:GLN:HG3	1.85	0.42
1:F:89:PHE:CE1	1:F:90:THR:HG22	2.55	0.42
1:C:41:LEU:HD23	1:C:41:LEU:HA	1.75	0.42
1:B:67:ASN:CB	1:B:74:LYS:HG3	2.50	0.42
1:B:114:ILE:HA	1:B:117:ASN:HB2	2.02	0.42
1:D:13:LEU:HA	1:D:143:ILE:HG23	2.02	0.42
1:E:55:ILE:O	1:E:56:ILE:C	2.58	0.41
1:C:157:THR:C	1:C:159:ASP:N	2.71	0.41
1:D:90:THR:C	1:D:92:PHE:H	2.21	0.41
1:E:91:LEU:HD23	1:E:91:LEU:HA	1.96	0.41
1:B:10:GLY:HA2	1:B:33:ILE:O	2.21	0.41
1:C:37:LEU:HD23	1:C:37:LEU:HA	1.79	0.41
1:E:44:HIS:O	1:E:107:LYS:HD2	2.21	0.41
1:F:12:ILE:HB	1:F:144:ASP:HB2	2.01	0.41
1:F:37:LEU:HD12	1:F:83:LEU:HD23	2.01	0.41
1:B:13:LEU:HB3	1:B:31:SER:HB2	2.03	0.41
1:C:67:ASN:HB2	1:C:74:LYS:HG2	2.02	0.41
1:E:53:LEU:O	1:E:57:ARG:HB2	2.21	0.41
1:B:12:ILE:HG13	1:B:32:GLU:HG2	2.01	0.41
1:E:67:ASN:O	1:E:68:ASP:C	2.59	0.41
1:E:90:THR:O	1:F:153:ILE:HD13	2.20	0.41
1:A:124:LYS:HD3	1:A:129:ASP:HB2	2.02	0.41
1:C:142:ASN:C	1:C:143:ILE:HG13	2.41	0.41
1:A:14:SER:HB2	1:A:27:LEU:HD22	2.03	0.41
1:B:35:ASN:HD22	1:B:35:ASN:N	2.18	0.41
1:B:60:LEU:O	1:B:76:VAL:HG12	2.21	0.41
1:B:100:LYS:HA	1:B:101:PRO:HD3	1.88	0.41
1:C:79:LEU:HD23	1:C:79:LEU:HA	1.84	0.41
1:C:156:ASP:O	1:C:157:THR:C	2.59	0.41
1:E:5:ILE:O	1:E:152:THR:HA	2.21	0.41
1:E:128:ASN:OD1	1:E:129:ASP:N	2.54	0.41
1:F:122:GLU:HG3	1:F:126:GLN:NE2	2.35	0.41
1:A:15:VAL:O	1:A:27:LEU:HA	2.21	0.41
1:B:6:GLN:HG3	1:B:152:THR:HG23	2.03	0.41
1:C:2:ARG:NH1	1:C:92:PHE:HA	2.36	0.41
1:B:68:ASP:HB3	1:B:69:ASN:H	1.46	0.40
1:E:35:ASN:HB3	1:E:81:TYR:CZ	2.56	0.40
1:A:116:TYR:OH	1:A:134:ILE:HB	2.21	0.40
1:C:56:ILE:HG12	1:C:123:PHE:CE2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:128:ASN:OD1	1:D:129:ASP:N	2.54	0.40
1:C:21:GLY:C	1:C:23:ASN:H	2.21	0.40
1:C:128:ASN:O	1:C:130:ASP:N	2.55	0.40
1:F:78:ASP:O	1:F:80:ASN:N	2.53	0.40
1:C:159:ASP:HB2	1:C:160:ILE:HD13	2.03	0.40
1:E:61:ASN:HD21	1:E:77:LYS:NZ	2.19	0.40
1:B:6:GLN:CG	1:B:152:THR:HG23	2.52	0.40
1:D:92:PHE:HB2	1:D:106:ALA:HB2	2.04	0.40
1:E:80:ASN:HA	1:E:127:TYR:OH	2.21	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	146/164 (89%)	120 (82%)	22 (15%)	4 (3%)	5	26
1	B	147/164 (90%)	123 (84%)	21 (14%)	3 (2%)	7	34
1	C	158/164 (96%)	120 (76%)	23 (15%)	15 (10%)	0	3
1	D	147/164 (90%)	117 (80%)	27 (18%)	3 (2%)	7	34
1	E	145/164 (88%)	112 (77%)	25 (17%)	8 (6%)	2	10
1	F	146/164 (89%)	109 (75%)	28 (19%)	9 (6%)	1	8
All	All	889/984 (90%)	701 (79%)	146 (16%)	42 (5%)	2	14

All (42) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	97	LYS
1	C	18	GLU
1	C	24	GLU

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Mol	Chain	Res	Type
1	C	25	LYS
1	C	129	ASP
1	C	137	PHE
1	C	157	THR
1	D	49	TRP
1	E	68	ASP
1	F	116	TYR
1	F	160	ILE
1	B	45	LYS
1	B	68	ASP
1	C	23	ASN
1	C	69	ASN
1	C	97	LYS
1	C	104	HIS
1	C	158	HIS
1	D	96	LYS
1	E	69	ASN
1	E	72	TRP
1	E	78	ASP
1	F	70	LYS
1	F	79	LEU
1	F	127	TYR
1	A	127	TYR
1	B	34	LYS
1	C	26	GLU
1	E	59	CYS
1	E	60	LEU
1	F	113	LEU
1	A	137	PHE
1	C	22	GLU
1	C	49	TRP
1	E	157	THR
1	F	115	PHE
1	A	57	ARG
1	E	55	ILE
1	F	136	LYS
1	F	78	ASP
1	C	21	GLY
1	D	30	ILE

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	134/151 (89%)	119 (89%)	15 (11%)	6	24
1	B	135/151 (89%)	118 (87%)	17 (13%)	4	20
1	C	129/151 (85%)	108 (84%)	21 (16%)	2	11
1	D	133/151 (88%)	117 (88%)	16 (12%)	5	22
1	E	129/151 (85%)	108 (84%)	21 (16%)	2	11
1	F	132/151 (87%)	115 (87%)	17 (13%)	4	19
All	All	792/906 (87%)	685 (86%)	107 (14%)	4	17

All (107) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	14	SER
1	A	31	SER
1	A	34	LYS
1	A	41	LEU
1	A	53	LEU
1	A	57	ARG
1	A	69	ASN
1	A	76	VAL
1	A	80	ASN
1	A	87	SER
1	A	88	GLN
1	A	102	ASP
1	A	115	PHE
1	A	123	PHE
1	A	142	ASN
1	B	14	SER
1	B	27	LEU
1	B	28	GLU
1	B	68	ASP
1	B	70	LYS
1	B	97	LYS
1	B	105	LEU

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Mol	Chain	Res	Type
1	B	111	GLU
1	B	125	LYS
1	B	127	TYR
1	B	128	ASN
1	B	129	ASP
1	B	133	LYS
1	B	142	ASN
1	B	152	THR
1	B	158	HIS
1	B	159	ASP
1	C	13	LEU
1	C	28	GLU
1	C	34	LYS
1	C	39	CYS
1	C	41	LEU
1	C	44	HIS
1	C	53	LEU
1	C	76	VAL
1	C	85	ILE
1	C	94	ASN
1	C	96	LYS
1	C	107	LYS
1	C	108	GLU
1	C	111	GLU
1	C	114	ILE
1	C	121	ASP
1	C	127	TYR
1	C	128	ASN
1	C	130	ASP
1	C	139	ASN
1	C	160	ILE
1	D	15	VAL
1	D	17	LYS
1	D	26	GLU
1	D	30	ILE
1	D	35	ASN
1	D	41	LEU
1	D	53	LEU
1	D	80	ASN
1	D	111	GLU
1	D	114	ILE
1	D	123	PHE

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Mol	Chain	Res	Type
1	D	128	ASN
1	D	130	ASP
1	D	142	ASN
1	D	143	ILE
1	D	146	THR
1	E	15	VAL
1	E	32	GLU
1	E	41	LEU
1	E	43	ILE
1	E	48	THR
1	E	53	LEU
1	E	57	ARG
1	E	62	LEU
1	E	66	ASN
1	E	67	ASN
1	E	69	ASN
1	E	76	VAL
1	E	78	ASP
1	E	84	LEU
1	E	87	SER
1	E	102	ASP
1	E	103	PHE
1	E	107	LYS
1	E	114	ILE
1	E	115	PHE
1	E	129	ASP
1	F	5	ILE
1	F	27	LEU
1	F	31	SER
1	F	67	ASN
1	F	80	ASN
1	F	83	LEU
1	F	86	VAL
1	F	94	ASN
1	F	102	ASP
1	F	104	HIS
1	F	108	GLU
1	F	119	ILE
1	F	121	ASP
1	F	125	LYS
1	F	128	ASN
1	F	159	ASP

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Mol	Chain	Res	Type
1	F	160	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (25) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	80	ASN
1	A	147	ASN
1	B	35	ASN
1	B	88	GLN
1	B	104	HIS
1	C	80	ASN
1	C	88	GLN
1	C	94	ASN
1	C	117	ASN
1	C	139	ASN
1	C	158	HIS
1	D	99	ASN
1	D	142	ASN
1	E	44	HIS
1	E	61	ASN
1	E	75	ASN
1	E	158	HIS
1	F	35	ASN
1	F	61	ASN
1	F	67	ASN
1	F	88	GLN
1	F	94	ASN
1	F	99	ASN
1	F	126	GLN
1	F	128	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 [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

1 ligand is 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	DGL	B	165	-	8,9,9	1.96	1 (12%)	8,11,11	1.06	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	DGL	B	165	-	-	3/9/9/9	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	165	DGL	OXT-C	-5.17	1.14	1.30

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	165	DGL	OE1-CD-CG-CB
2	B	165	DGL	OE2-CD-CG-CB
2	B	165	DGL	CA-CB-CG-CD

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	165	DGL	2	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	150/164 (91%)	-0.08	0	100 100	62, 74, 87, 92	1 (0%)
1	B	151/164 (92%)	-0.23	0	100 100	56, 68, 85, 91	2 (1%)
1	C	160/164 (97%)	-0.09	1 (0%)	89 72	60, 80, 103, 109	1 (0%)
1	D	151/164 (92%)	-0.21	1 (0%)	87 69	59, 75, 107, 112	2 (1%)
1	E	149/164 (90%)	-0.13	3 (2%)	65 36	71, 96, 114, 117	1 (0%)
1	F	150/164 (91%)	-0.19	3 (2%)	65 36	67, 86, 107, 111	2 (1%)
All	All	911/984 (92%)	-0.16	8 (0%)	84 63	56, 79, 107, 117	9 (0%)

All (8) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	161	ASN	4.0
1	F	104	HIS	2.8
1	C	127	TYR	2.5
1	D	5	ILE	2.4
1	E	65	TRP	2.3
1	E	109	PRO	2.1
1	F	105	LEU	2.1
1	E	64	LEU	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

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	DGL	B	165	10/10	0.77	0.38	91,92,92,93	0

6.5 Other polymers

There are no such residues in this entry.