



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 08:22 AM GMT

PDB ID : 3EAM
Title : An open-pore structure of a bacterial pentameric ligand-gated ion channel
Authors : Bocquet, N.; Nury, H.; Baaden, M.; Le Poupon, C.; Changeux, J.P.; Delarue, M.; Corringer, P.J.
Deposited on : 2008-08-26
Resolution : 2.90 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

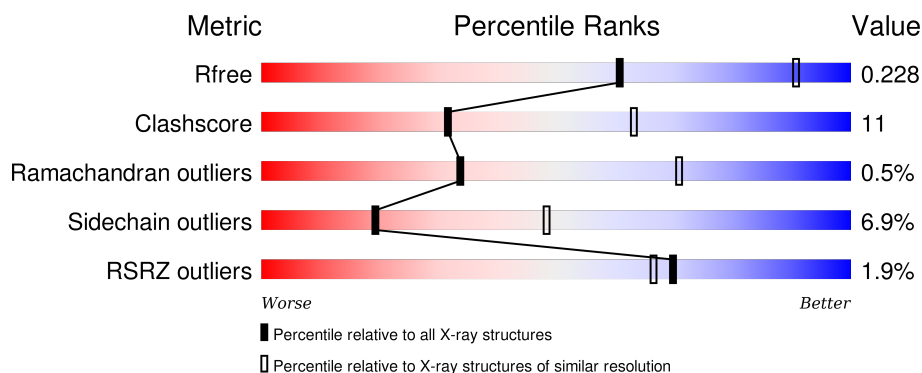
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.90 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	1451 (2.90-2.90)
Clashscore	102246	1668 (2.90-2.90)
Ramachandran outliers	100387	1630 (2.90-2.90)
Sidechain outliers	100360	1632 (2.90-2.90)
RSRZ outliers	91569	1456 (2.90-2.90)

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	317	<div> <div>2%</div> <div>73% 21% . .</div> </div>
1	B	317	<div> <div>%</div> <div>76% 19% . .</div> </div>
1	C	317	<div> <div>2%</div> <div>73% 22% . .</div> </div>
1	D	317	<div> <div>3%</div> <div>74% 20% . .</div> </div>
1	E	317	<div> <div>2%</div> <div>77% 18% . .</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
2	LMT	A	501	X	-	-	-
2	LMT	B	501	X	-	-	-
2	LMT	C	501	X	-	-	X
2	LMT	C	502	X	-	-	X
2	LMT	E	501	X	-	-	-
2	LMT	E	602	X	-	-	-
3	PC1	A	601	X	-	-	-
3	PC1	A	602	X	-	-	X
3	PC1	A	603	X	-	-	X
3	PC1	B	601	X	-	-	-
3	PC1	B	602	X	-	-	X
3	PC1	B	603	-	-	-	X
3	PC1	C	601	X	-	-	-
3	PC1	C	602	X	-	-	X
3	PC1	C	603	X	-	-	-
3	PC1	D	601	X	-	-	-
3	PC1	D	602	X	-	-	X
3	PC1	D	603	-	-	-	X
3	PC1	E	601	X	-	-	-
3	PC1	E	603	X	-	-	X
3	PC1	E	604	X	-	-	X

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 13505 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.

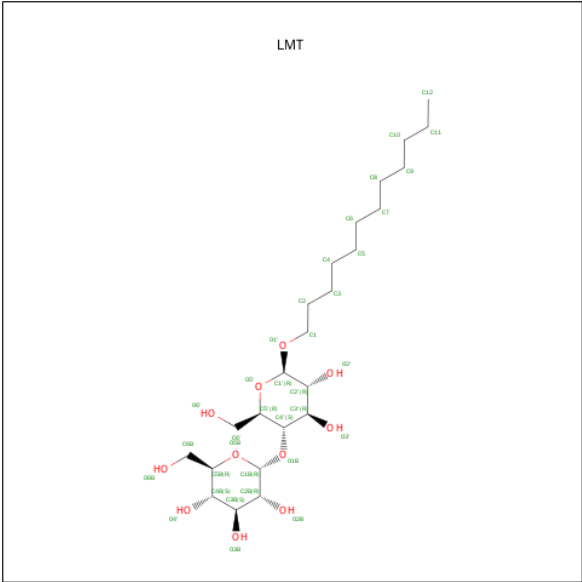
- Molecule 1 is a protein called Glr4197 protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	311	Total	C	N	O	S	0	0	0
			2525	1664	404	453	4			
1	B	311	Total	C	N	O	S	0	0	0
			2525	1664	404	453	4			
1	C	311	Total	C	N	O	S	0	0	0
			2525	1664	404	453	4			
1	D	311	Total	C	N	O	S	0	0	0
			2525	1664	404	453	4			
1	E	311	Total	C	N	O	S	0	0	0
			2525	1664	404	453	4			

There are 5 discrepancies between the modelled and reference sequences:

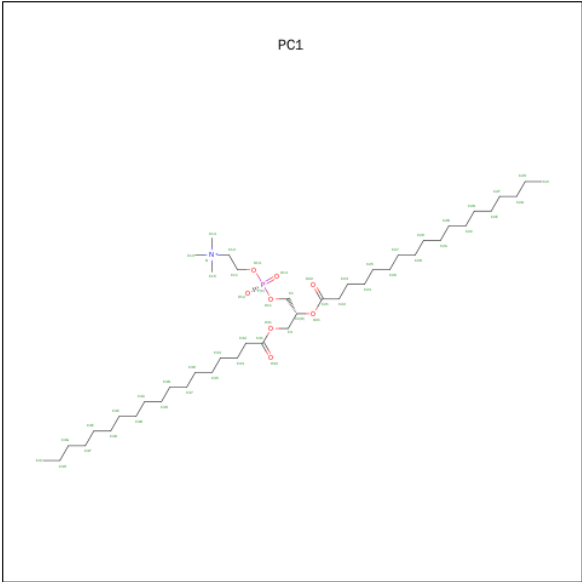
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	ALA	GLY	CONFLICT	UNP Q7NDN8
B	1	ALA	GLY	CONFLICT	UNP Q7NDN8
C	1	ALA	GLY	CONFLICT	UNP Q7NDN8
D	1	ALA	GLY	CONFLICT	UNP Q7NDN8
E	1	ALA	GLY	CONFLICT	UNP Q7NDN8

- Molecule 2 is DODECYL-BETA-D-MALTOSIDE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			35	24	11		
2	B	1	Total	C	O	0	0
			35	24	11		
2	C	1	Total	C	O	0	0
			35	24	11		
2	C	1	Total	C	O	0	0
			35	24	11		
2	E	1	Total	C	O	0	0
			35	24	11		
2	E	1	Total	C	O	0	0
			35	24	11		

- Molecule 3 is 1,2-DIACYL-SN-GLYCERO-3-PHOSPHOCHOLINE (three-letter code: PC1) (formula: C₄₄H₈₈NO₈P).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	0
			39	29	1	8	1		
3	A	1	Total	C	O			0	0
			27	23	4				
3	A	1	Total	C	N	O	P	0	0
			47	37	1	8	1		
3	B	1	Total	C	N	O	P	0	0
			47	37	1	8	1		
3	B	1	Total	C	N	O	P	0	0
			39	29	1	8	1		
3	B	1	Total	C	O			0	0
			26	22	4				
3	C	1	Total	C	N	O	P	0	0
			47	37	1	8	1		
3	C	1	Total	C	N	O	P	0	0
			39	29	1	8	1		
3	C	1	Total	C	O			0	0
			27	23	4				
3	D	1	Total	C	N	O	P	0	0
			47	37	1	8	1		
3	D	1	Total	C	N	O	P	0	0
			39	29	1	8	1		
3	D	1	Total	C	O			0	0
			22	18	4				
3	E	1	Total	C	N	O	P	0	0
			47	37	1	8	1		
3	E	1	Total	C	N	O	P	0	0
			39	29	1	8	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	E	1	Total	C	O	0	0
			27	23	4		

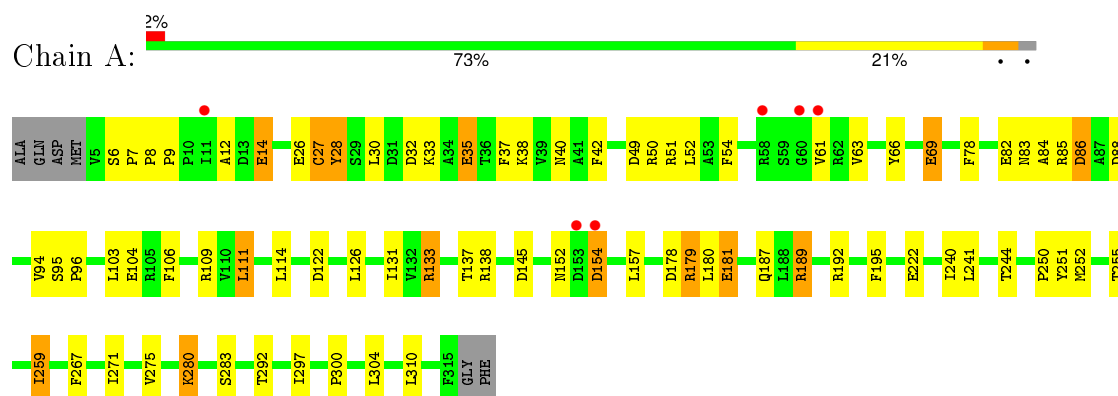
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	20	Total	O	0	0
			20	20		
4	B	24	Total	O	0	0
			24	24		
4	C	21	Total	O	0	0
			21	21		
4	D	24	Total	O	0	0
			24	24		
4	E	22	Total	O	0	0
			22	22		

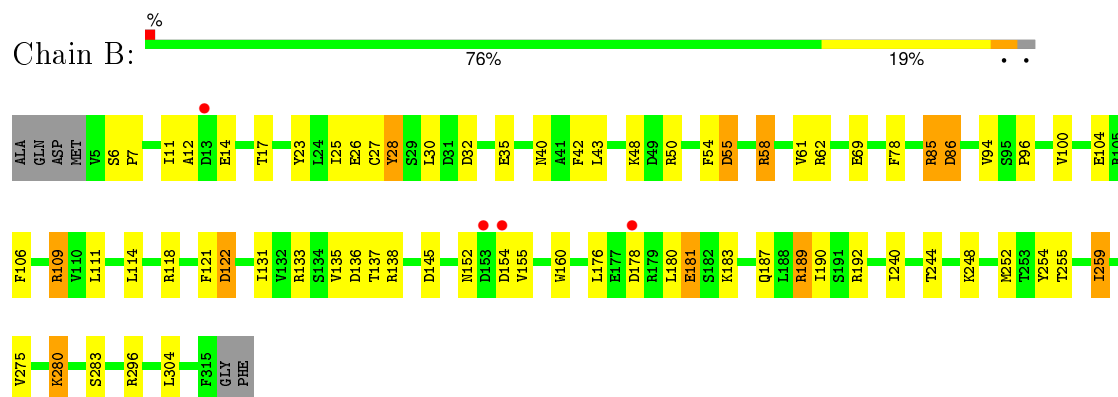
3 Residue-property plots [i](#)

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.

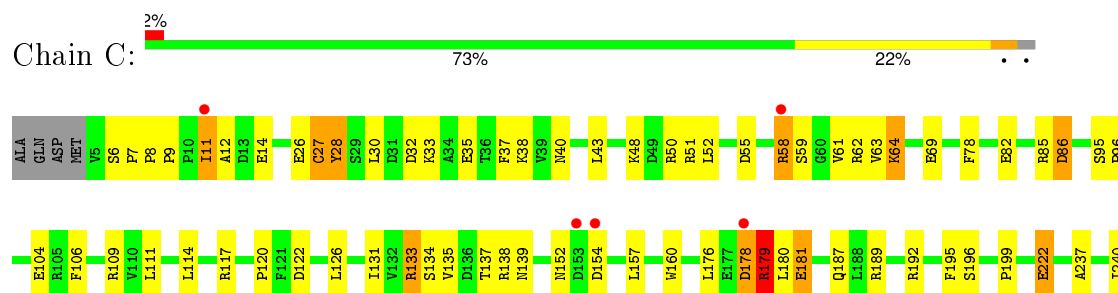
• Molecule 1: Glr4197 protein

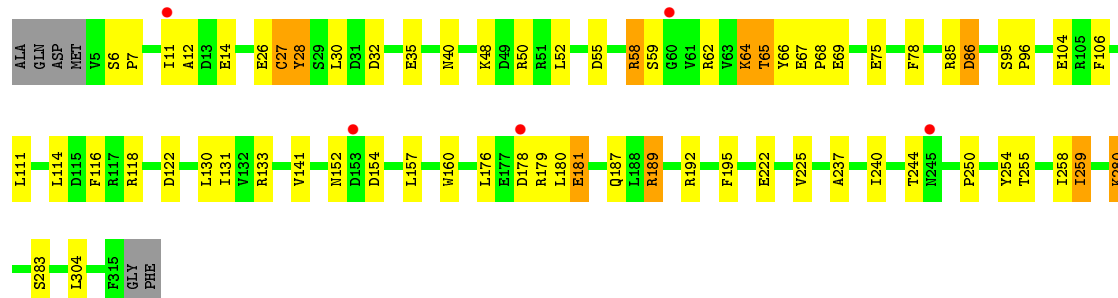


• Molecule 1: Glr4197 protein



• Molecule 1: Glr4197 protein





4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	183.32Å 133.64Å 160.18Å 90.00° 102.94° 90.00°	Depositor
Resolution (Å)	10.00 – 2.90 10.00 – 2.90	Depositor EDS
% Data completeness (in resolution range)	100.0 (10.00-2.90) 100.0 (10.00-2.90)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.16 (at 2.89Å)	Xtriage
Refinement program	REFMAC 5.4.0073	Depositor
R, R_{free}	0.199 , 0.231 0.197 , 0.228	Depositor DCC
R_{free} test set	4063 reflections (5.26%)	DCC
Wilson B-factor (Å ²)	59.1	Xtriage
Anisotropy	0.083	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 70.7	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 81299 reflections	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	13505	wwPDB-VP
Average B, all atoms (Å ²)	53.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.90% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: PC1, LMT

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	1.06	2/2593 (0.1%)	0.96	9/3545 (0.3%)
1	B	1.03	1/2593 (0.0%)	1.09	9/3545 (0.3%)
1	C	1.06	2/2593 (0.1%)	0.99	7/3545 (0.2%)
1	D	1.03	2/2593 (0.1%)	0.97	6/3545 (0.2%)
1	E	1.04	2/2593 (0.1%)	0.89	1/3545 (0.0%)
All	All	1.04	9/12965 (0.1%)	0.98	32/17725 (0.2%)

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	27	CYS	CB-SG	-9.04	1.66	1.82
1	C	27	CYS	CB-SG	-8.93	1.67	1.82
1	E	27	CYS	CB-SG	-7.54	1.69	1.82
1	A	27	CYS	CB-SG	-6.51	1.71	1.82
1	D	222	GLU	CG-CD	6.16	1.61	1.51
1	C	222	GLU	CG-CD	5.87	1.60	1.51
1	D	27	CYS	CB-SG	-5.85	1.72	1.81
1	A	222	GLU	CG-CD	5.66	1.60	1.51
1	E	75	GLU	CD-OE1	5.36	1.31	1.25

All (32) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	109	ARG	NE-CZ-NH2	21.92	131.26	120.30
1	B	109	ARG	NE-CZ-NH1	-19.00	110.80	120.30
1	D	179	ARG	NE-CZ-NH1	-14.68	112.96	120.30
1	C	179	ARG	NE-CZ-NH1	-14.62	112.99	120.30
1	D	179	ARG	NE-CZ-NH2	13.35	126.98	120.30
1	A	133	ARG	NE-CZ-NH2	-11.93	114.34	120.30
1	C	179	ARG	NE-CZ-NH2	11.74	126.17	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	109	ARG	CD-NE-CZ	9.04	136.25	123.60
1	A	133	ARG	NE-CZ-NH1	8.39	124.49	120.30
1	B	85	ARG	NE-CZ-NH1	-6.98	116.81	120.30
1	C	179	ARG	CD-NE-CZ	6.67	132.94	123.60
1	D	179	ARG	CD-NE-CZ	6.60	132.84	123.60
1	B	55	ASP	CB-CG-OD1	6.13	123.82	118.30
1	A	179	ARG	NE-CZ-NH1	6.03	123.32	120.30
1	B	296	ARG	NE-CZ-NH1	-5.89	117.35	120.30
1	A	222	GLU	CB-CA-C	5.78	121.97	110.40
1	D	304	LEU	CA-CB-CG	5.77	128.56	115.30
1	C	179	ARG	CG-CD-NE	-5.67	99.89	111.80
1	B	122	ASP	CB-CG-OD1	5.62	123.35	118.30
1	C	154	ASP	CB-CA-C	-5.61	99.18	110.40
1	A	179	ARG	NE-CZ-NH2	-5.47	117.57	120.30
1	B	154	ASP	CB-CA-C	-5.44	99.52	110.40
1	A	154	ASP	CB-CA-C	-5.40	99.59	110.40
1	D	138	ARG	NE-CZ-NH2	-5.36	117.62	120.30
1	A	111	LEU	CA-CB-CG	5.34	127.58	115.30
1	C	315	PHE	CA-C-O	5.27	131.16	120.10
1	D	179	ARG	CG-CD-NE	-5.24	100.81	111.80
1	C	133	ARG	NE-CZ-NH1	-5.21	117.69	120.30
1	E	118	ARG	NE-CZ-NH1	-5.18	117.71	120.30
1	A	88	ASP	CB-CA-C	-5.13	100.15	110.40
1	A	133	ARG	CD-NE-CZ	5.12	130.77	123.60
1	B	58	ARG	NE-CZ-NH2	5.03	122.81	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	2525	0	2545	61	0
1	B	2525	0	2545	48	0
1	C	2525	0	2545	66	0
1	D	2525	0	2545	61	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	E	2525	0	2545	53	0
2	A	35	0	46	0	0
2	B	35	0	46	9	0
2	C	70	0	92	6	0
2	E	70	0	92	8	0
3	A	113	0	158	2	0
3	B	112	0	157	6	0
3	C	113	0	158	4	0
3	D	108	0	149	7	0
3	E	113	0	158	5	0
4	A	20	0	0	0	0
4	B	24	0	0	1	0
4	C	21	0	0	1	0
4	D	24	0	0	1	0
4	E	22	0	0	1	0
All	All	13505	0	13781	291	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 11.

All (291) 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:58:ARG:HH11	1:C:58:ARG:HG3	1.03	1.12
2:B:501:LMT:H6E	1:C:33:LYS:HE2	1.20	1.09
1:A:78:PHE:HE2	1:A:85:ARG:HD3	1.22	1.02
2:B:501:LMT:H6E	1:C:33:LYS:CE	1.94	0.97
1:B:78:PHE:HE2	1:B:85:ARG:HD3	1.31	0.95
1:C:58:ARG:NH1	1:C:58:ARG:HG3	1.71	0.95
1:A:54:PHE:CE2	1:A:96:PRO:HA	2.05	0.91
1:D:78:PHE:HE2	1:D:85:ARG:HD3	1.35	0.89
1:C:78:PHE:HE2	1:C:85:ARG:HD3	1.36	0.88
1:C:58:ARG:HH11	1:C:58:ARG:CG	1.86	0.88
1:E:187:GLN:OE1	1:E:189:ARG:NH2	2.07	0.87
1:D:6:SER:HB2	1:D:7:PRO:HD2	1.58	0.85
1:E:6:SER:HB2	1:E:7:PRO:HD2	1.56	0.85
1:E:78:PHE:HE2	1:E:85:ARG:HD3	1.39	0.85
1:E:133:ARG:NH1	1:E:176:LEU:O	2.10	0.84
1:A:63:VAL:HG21	1:B:136:ASP:OD1	1.77	0.84
1:E:55:ASP:O	1:E:59:SER:HB2	1.77	0.84
1:C:78:PHE:CE2	1:C:85:ARG:HD3	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:280:LYS:HB2	1:C:280:LYS:NZ	1.94	0.82
1:A:6:SER:HB2	1:A:7:PRO:HD2	1.62	0.82
1:D:62:ARG:HB3	1:D:62:ARG:HH11	1.43	0.82
2:B:501:LMT:O3'	2:B:501:LMT:H4B	1.79	0.81
1:C:133:ARG:NH1	1:C:176:LEU:O	2.13	0.81
1:A:187:GLN:OE1	1:A:189:ARG:NH2	2.12	0.80
1:B:78:PHE:CE2	1:B:85:ARG:HD3	2.17	0.80
2:B:501:LMT:H4'	2:B:501:LMT:H3B	1.63	0.80
1:A:78:PHE:CE2	1:A:85:ARG:HD3	2.14	0.79
1:D:280:LYS:HB2	1:D:280:LYS:NZ	1.98	0.78
1:C:6:SER:HB2	1:C:7:PRO:HD2	1.65	0.77
1:D:133:ARG:NH1	1:D:176:LEU:O	2.17	0.77
1:E:78:PHE:CE2	1:E:85:ARG:HD3	2.20	0.77
1:B:6:SER:HB2	1:B:7:PRO:HD2	1.67	0.76
1:A:280:LYS:NZ	1:A:280:LYS:HB2	2.01	0.75
1:C:187:GLN:OE1	1:C:189:ARG:NH2	2.22	0.73
1:B:69:GLU:H	1:B:69:GLU:CD	1.91	0.73
1:A:131:ILE:HD11	1:A:181:GLU:HG2	1.70	0.73
1:D:187:GLN:OE1	1:D:189:ARG:NH2	2.21	0.73
1:C:95:SER:HB2	1:C:96:PRO:HD3	1.72	0.72
1:C:95:SER:HB2	1:C:96:PRO:CD	2.21	0.71
1:E:280:LYS:NZ	1:E:280:LYS:HB2	2.06	0.70
1:B:133:ARG:NH1	1:B:176:LEU:O	2.25	0.70
3:D:601:PC1:O32	3:D:601:PC1:H2	1.91	0.70
1:D:69:GLU:CD	1:D:69:GLU:H	1.96	0.70
1:A:275:VAL:HG22	3:A:601:PC1:H222	1.75	0.69
1:C:63:VAL:HG12	1:C:64:LYS:H	1.59	0.68
1:B:254:TYR:OH	3:B:602:PC1:H361	1.92	0.68
2:B:501:LMT:H4'	2:B:501:LMT:C3B	2.23	0.68
1:E:95:SER:HB2	1:E:96:PRO:CD	2.23	0.68
1:C:28:TYR:N	1:C:28:TYR:CD1	2.59	0.67
1:E:95:SER:HB2	1:E:96:PRO:HD3	1.75	0.67
1:B:248:LYS:HE3	4:B:622:HOH:O	1.93	0.67
1:D:78:PHE:CE2	1:D:85:ARG:HD3	2.25	0.67
1:A:137:THR:O	1:A:138:ARG:HB3	1.95	0.66
1:A:280:LYS:HZ3	1:A:280:LYS:HB2	1.61	0.66
1:D:27:CYS:HB3	1:D:157:LEU:HD13	1.78	0.65
1:E:55:ASP:O	1:E:59:SER:CB	2.45	0.65
1:E:55:ASP:HB3	1:E:58:ARG:HG3	1.77	0.65
1:D:6:SER:HB2	1:D:7:PRO:CD	2.28	0.63
1:A:304:LEU:HB2	3:B:601:PC1:H2I2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:95:SER:HB2	1:A:96:PRO:CD	2.29	0.63
1:D:131:ILE:HD11	1:D:181:GLU:HG2	1.79	0.63
1:A:32:ASP:OD1	1:A:192:ARG:NH2	2.32	0.63
1:B:131:ILE:HD12	1:B:183:LYS:HB2	1.81	0.63
1:E:240:ILE:O	1:E:244:THR:HG23	1.99	0.62
1:C:280:LYS:HB2	1:C:280:LYS:HZ2	1.64	0.62
1:D:240:ILE:O	1:D:244:THR:HG23	1.99	0.62
1:D:95:SER:HB2	1:D:96:PRO:CD	2.30	0.62
1:A:54:PHE:CD2	1:A:96:PRO:HA	2.34	0.61
1:B:187:GLN:OE1	1:B:189:ARG:NH2	2.33	0.61
1:A:195:PHE:CZ	1:B:252:MET:CE	2.83	0.61
1:D:280:LYS:HB2	1:D:280:LYS:HZ3	1.64	0.61
1:D:95:SER:HB2	1:D:96:PRO:HD3	1.81	0.61
1:A:95:SER:HB2	1:A:96:PRO:HD3	1.83	0.61
1:C:195:PHE:CZ	1:D:252:MET:CE	2.84	0.60
1:D:14:GLU:O	1:D:138:ARG:NH2	2.26	0.60
3:D:602:PC1:H32	3:D:602:PC1:O12	2.02	0.59
1:E:6:SER:HB2	1:E:7:PRO:CD	2.32	0.59
1:E:69:GLU:CD	1:E:69:GLU:H	2.05	0.59
1:A:6:SER:HB2	1:A:7:PRO:CD	2.31	0.59
1:D:28:TYR:CE2	1:D:38:LYS:HD2	2.38	0.59
1:D:137:THR:O	1:D:138:ARG:HB3	2.02	0.59
1:A:33:LYS:HE2	2:E:602:LMT:H6D	1.85	0.59
1:D:85:ARG:NE	1:D:104:GLU:OE2	2.31	0.59
1:A:14:GLU:O	1:A:138:ARG:NH2	2.27	0.59
1:A:69:GLU:H	1:A:69:GLU:CD	2.07	0.58
1:A:195:PHE:CE1	1:B:252:MET:HE2	2.38	0.58
1:A:252:MET:CE	1:E:195:PHE:CZ	2.86	0.58
1:C:32:ASP:OD1	1:C:192:ARG:NH2	2.37	0.58
1:A:195:PHE:CZ	1:B:252:MET:HE2	2.39	0.58
3:D:602:PC1:H152	3:D:602:PC1:H12	1.85	0.58
1:C:137:THR:O	1:C:138:ARG:HB3	2.03	0.57
1:C:131:ILE:HD11	1:C:181:GLU:HG2	1.86	0.57
1:E:28:TYR:N	1:E:28:TYR:CD1	2.73	0.57
1:A:85:ARG:NE	1:A:104:GLU:OE2	2.32	0.57
1:A:35:GLU:HG2	1:A:114:LEU:HG	1.86	0.57
1:C:6:SER:HB2	1:C:7:PRO:CD	2.34	0.56
1:E:280:LYS:HZ2	1:E:280:LYS:HB2	1.69	0.56
1:C:55:ASP:O	1:C:59:SER:OG	2.14	0.56
1:C:43:LEU:HB3	1:C:104:GLU:HG2	1.86	0.56
1:B:280:LYS:HB2	1:B:280:LYS:NZ	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:254:TYR:OH	3:E:603:PC1:H352	2.06	0.56
1:E:26:GLU:HA	1:E:26:GLU:OE1	2.05	0.56
1:B:240:ILE:O	1:B:244:THR:HG23	2.06	0.56
1:B:131:ILE:HD11	1:B:181:GLU:HG2	1.86	0.56
1:C:55:ASP:CG	1:C:58:ARG:HB2	2.27	0.56
1:A:54:PHE:CE2	1:A:96:PRO:CA	2.85	0.56
1:A:241:LEU:HD22	1:B:240:ILE:HG12	1.88	0.55
2:B:501:LMT:C6'	1:C:33:LYS:CE	2.78	0.54
1:A:122:ASP:OD2	1:A:192:ARG:NH1	2.39	0.54
1:C:195:PHE:HZ	1:D:252:MET:CE	2.21	0.54
1:A:297:ILE:O	1:A:300:PRO:HD2	2.07	0.54
1:C:82:GLU:OE1	1:C:109:ARG:NH1	2.39	0.54
1:B:7:PRO:HG3	1:B:135:VAL:HG21	1.88	0.54
1:C:86:ASP:O	1:C:106:PHE:HA	2.08	0.54
1:B:32:ASP:OD1	1:B:192:ARG:NH2	2.40	0.54
1:E:32:ASP:OD1	1:E:192:ARG:NH2	2.39	0.54
1:A:28:TYR:CE2	1:A:38:LYS:HD2	2.43	0.54
2:B:501:LMT:C6'	1:C:33:LYS:NZ	2.71	0.54
1:C:7:PRO:HG3	1:C:135:VAL:HG21	1.91	0.53
1:A:66:TYR:CE1	1:A:94:VAL:HG21	2.43	0.53
1:A:252:MET:CE	1:E:195:PHE:HZ	2.21	0.53
1:B:26:GLU:HB2	1:B:40:ASN:HB3	1.91	0.53
1:D:237:ALA:HB2	2:E:501:LMT:H91	1.91	0.53
1:B:26:GLU:OE1	1:B:26:GLU:HA	2.09	0.53
1:D:294:ALA:CB	3:D:603:PC1:O22	2.57	0.53
1:C:280:LYS:HB2	1:C:280:LYS:HZ3	1.72	0.52
1:E:237:ALA:HA	2:E:602:LMT:H92	1.92	0.52
1:A:28:TYR:N	1:A:28:TYR:CD1	2.76	0.52
1:B:275:VAL:HG22	3:B:601:PC1:H221	1.91	0.52
1:C:30:LEU:HD13	1:C:160:TRP:CE2	2.44	0.52
1:C:28:TYR:N	1:C:28:TYR:HD1	2.07	0.52
1:C:69:GLU:CD	1:C:69:GLU:H	2.14	0.52
1:A:240:ILE:O	1:A:244:THR:HG23	2.09	0.52
1:D:43:LEU:HB3	1:D:104:GLU:HG2	1.92	0.52
1:D:86:ASP:O	1:D:106:PHE:HA	2.10	0.51
1:E:131:ILE:HD11	1:E:181:GLU:HG2	1.91	0.51
1:C:122:ASP:OD2	1:C:192:ARG:NH1	2.43	0.51
2:C:501:LMT:H2B	2:C:501:LMT:C3'	2.39	0.51
1:C:240:ILE:O	1:C:244:THR:HG23	2.10	0.51
1:E:122:ASP:OD2	1:E:192:ARG:NH1	2.43	0.51
1:E:30:LEU:HD13	1:E:160:TRP:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:26:GLU:HB2	1:E:40:ASN:HB3	1.92	0.51
1:A:195:PHE:HZ	1:B:252:MET:CE	2.22	0.50
1:E:30:LEU:HD22	4:E:618:HOH:O	2.12	0.50
1:C:117:ARG:NH2	4:C:411:HOH:O	2.45	0.50
2:C:501:LMT:H5B	2:E:501:LMT:O3B	2.11	0.50
1:B:85:ARG:NE	1:B:104:GLU:OE2	2.42	0.50
1:C:35:GLU:HG2	1:C:114:LEU:HG	1.94	0.50
1:A:252:MET:HE2	1:E:195:PHE:CZ	2.47	0.49
2:C:501:LMT:H1B	1:D:33:LYS:HE2	1.95	0.49
1:B:6:SER:HB2	1:B:7:PRO:CD	2.38	0.49
1:E:58:ARG:HD3	1:E:59:SER:N	2.27	0.49
1:E:58:ARG:C	1:E:58:ARG:HD3	2.33	0.49
2:E:501:LMT:H12	2:E:501:LMT:H2'	1.54	0.49
1:E:258:ILE:HD13	3:E:603:PC1:H381	1.94	0.49
1:A:145:ASP:OD1	1:A:145:ASP:C	2.49	0.49
1:C:78:PHE:HE2	1:C:85:ARG:CD	2.15	0.48
1:D:131:ILE:HD12	1:D:183:LYS:HB2	1.94	0.48
1:A:30:LEU:C	1:A:30:LEU:HD23	2.34	0.48
1:D:32:ASP:OD1	1:D:192:ARG:NH2	2.46	0.48
1:E:27:CYS:HB3	1:E:157:LEU:HD13	1.96	0.48
1:D:217:TRP:CE2	1:D:296:ARG:HD3	2.49	0.48
1:C:195:PHE:CE1	1:D:252:MET:HE2	2.49	0.48
1:C:195:PHE:CZ	1:D:252:MET:HE1	2.48	0.48
1:A:267:PHE:O	1:A:271:ILE:HG12	2.14	0.48
1:A:32:ASP:CG	1:A:192:ARG:NH2	2.68	0.47
1:E:255:THR:O	1:E:259:ILE:HG12	2.14	0.47
1:D:178:ASP:O	1:D:179:ARG:HG2	2.14	0.47
1:E:65:THR:CG2	1:E:66:TYR:N	2.76	0.47
1:B:48:LYS:HE3	1:B:50:ARG:HH12	1.79	0.47
1:C:11:ILE:HG12	1:C:50:ARG:HH21	1.79	0.47
1:B:54:PHE:CE1	1:B:96:PRO:HA	2.50	0.47
1:C:63:VAL:HG12	1:C:64:LYS:N	2.29	0.47
1:B:122:ASP:OD1	1:B:192:ARG:HD2	2.15	0.47
2:C:501:LMT:H5B	2:E:501:LMT:C3B	2.44	0.47
1:A:255:THR:O	1:A:259:ILE:HG12	2.15	0.47
1:C:195:PHE:CZ	1:D:252:MET:HE2	2.49	0.47
1:A:27:CYS:HB3	1:A:157:LEU:HD13	1.97	0.47
1:D:255:THR:O	1:D:259:ILE:HG12	2.15	0.47
1:B:28:TYR:N	1:B:28:TYR:CD1	2.83	0.47
1:C:27:CYS:HB3	1:C:157:LEU:HD13	1.97	0.47
2:B:501:LMT:H6E	1:C:33:LYS:NZ	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:133:ARG:CZ	1:E:179:ARG:HB2	2.45	0.46
1:C:196:SER:O	1:C:199:PRO:HD2	2.16	0.46
3:C:602:PC1:H111	3:C:602:PC1:H132	1.75	0.46
1:D:280:LYS:HB2	1:D:280:LYS:HZ2	1.77	0.46
1:E:30:LEU:C	1:E:30:LEU:HD23	2.36	0.46
1:E:86:ASP:O	1:E:106:PHE:HA	2.16	0.46
1:D:145:ASP:OD1	1:D:145:ASP:C	2.54	0.46
1:E:95:SER:CB	1:E:96:PRO:CD	2.93	0.46
3:D:602:PC1:H153	3:D:602:PC1:H111	1.59	0.46
1:C:37:PHE:CD1	1:C:126:LEU:HD13	2.50	0.46
1:C:28:TYR:CE2	1:C:38:LYS:HD2	2.50	0.46
1:D:267:PHE:O	1:D:271:ILE:HG12	2.15	0.46
1:B:30:LEU:HD13	1:B:160:TRP:CE2	2.51	0.46
1:C:195:PHE:CE1	1:D:252:MET:CE	2.99	0.45
3:C:603:PC1:H221	3:C:603:PC1:O31	2.16	0.45
1:D:198:ILE:HB	1:D:199:PRO:HD3	1.98	0.45
1:D:28:TYR:CD1	1:D:28:TYR:N	2.84	0.45
3:E:603:PC1:H12	3:E:603:PC1:H152	1.97	0.45
1:C:50:ARG:C	1:C:52:LEU:H	2.20	0.45
1:D:58:ARG:H	1:D:58:ARG:HG2	1.64	0.45
3:B:602:PC1:H152	3:B:602:PC1:H111	1.73	0.45
1:A:252:MET:HE2	1:E:195:PHE:CE1	2.52	0.45
1:E:254:TYR:CZ	1:E:258:ILE:HD11	2.51	0.45
1:B:43:LEU:HB3	1:B:104:GLU:HG2	1.99	0.45
1:B:145:ASP:C	1:B:145:ASP:OD1	2.55	0.45
1:A:304:LEU:HB2	3:B:601:PC1:C2I	2.46	0.45
1:A:83:ASN:O	1:A:84:ALA:C	2.55	0.45
1:B:86:ASP:O	1:B:106:PHE:HA	2.16	0.45
1:C:134:SER:HB3	1:C:139:ASN:HA	1.99	0.45
1:E:85:ARG:NE	1:E:104:GLU:OE2	2.48	0.44
1:E:114:LEU:HB2	1:E:116:PHE:CE2	2.51	0.44
1:D:147:GLU:HA	1:D:147:GLU:OE2	2.17	0.44
1:B:118:ARG:O	1:B:121:PHE:N	2.48	0.44
1:A:8:PRO:HB3	1:A:49:ASP:OD1	2.18	0.44
3:E:603:PC1:H322	3:E:603:PC1:H252	1.99	0.44
1:D:26:GLU:HB2	1:D:40:ASN:HB3	1.99	0.44
1:C:254:TYR:OH	3:C:602:PC1:H351	2.17	0.44
1:A:63:VAL:CG2	1:B:136:ASP:OD1	2.59	0.44
1:C:237:ALA:HA	2:C:501:LMT:H92	1.99	0.44
1:A:310:LEU:HD23	1:A:310:LEU:HA	1.86	0.44
1:C:85:ARG:NE	1:C:104:GLU:OE2	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:252:MET:HE1	1:E:195:PHE:CZ	2.52	0.44
1:E:64:LYS:HE3	1:E:64:LYS:HB2	1.79	0.44
3:E:601:PC1:H11	3:E:601:PC1:O22	2.18	0.44
1:B:35:GLU:HG2	1:B:114:LEU:HG	1.99	0.43
1:D:85:ARG:HD2	1:D:106:PHE:HB2	2.00	0.43
1:E:67:GLU:O	1:E:68:PRO:C	2.56	0.43
1:B:255:THR:O	1:B:259:ILE:HG12	2.18	0.43
1:D:122:ASP:OD2	1:D:192:ARG:NH1	2.50	0.43
1:B:160:TRP:CE3	1:B:190:ILE:HD12	2.54	0.43
1:C:122:ASP:OD1	1:C:192:ARG:HD2	2.17	0.43
1:D:38:LYS:HE3	4:D:622:HOH:O	2.18	0.43
2:E:602:LMT:H4'	2:E:602:LMT:H2B	1.45	0.43
1:D:85:ARG:HH11	1:D:85:ARG:HG2	1.84	0.43
1:A:86:ASP:O	1:A:106:PHE:HA	2.18	0.43
1:A:26:GLU:HB2	1:A:40:ASN:HB3	2.00	0.43
1:D:7:PRO:HG3	1:D:135:VAL:HG21	2.01	0.43
1:E:78:PHE:CE1	1:E:130:LEU:HD21	2.54	0.43
3:B:601:PC1:H321	3:B:603:PC1:H331	2.01	0.43
1:C:43:LEU:HB3	1:C:104:GLU:CG	2.49	0.43
1:A:95:SER:CB	1:A:96:PRO:CD	2.95	0.42
1:C:26:GLU:HB2	1:C:40:ASN:HB3	2.00	0.42
1:D:261:MET:O	1:D:264:LEU:HB2	2.18	0.42
1:B:137:THR:O	1:B:138:ARG:HB3	2.19	0.42
1:D:95:SER:CB	1:D:96:PRO:CD	2.97	0.42
1:D:241:LEU:HD22	1:E:240:ILE:HG12	2.00	0.42
1:C:178:ASP:O	1:C:179:ARG:HG2	2.19	0.42
1:B:94:VAL:HG22	1:B:100:VAL:HG22	2.01	0.42
1:A:250:PRO:HD2	1:A:251:TYR:CD1	2.54	0.42
2:C:501:LMT:C6B	2:E:501:LMT:O3B	2.68	0.42
1:D:195:PHE:C	1:D:195:PHE:CD1	2.93	0.42
1:A:37:PHE:CD1	1:A:126:LEU:HD13	2.55	0.42
1:C:275:VAL:HG22	3:C:601:PC1:H221	2.01	0.42
3:A:602:PC1:H112	3:A:602:PC1:H132	1.67	0.42
1:D:29:SER:O	1:D:37:PHE:HA	2.19	0.42
1:B:23:TYR:HB3	1:B:42:PHE:HB2	2.02	0.42
1:E:50:ARG:C	1:E:52:LEU:H	2.23	0.42
3:D:602:PC1:P	3:D:602:PC1:H32	2.59	0.42
1:A:82:GLU:OE1	1:A:109:ARG:NH1	2.53	0.42
1:C:241:LEU:HD22	1:D:240:ILE:HG12	2.01	0.42
3:D:602:PC1:H331	3:D:602:PC1:H252	2.02	0.42
1:C:50:ARG:C	1:C:52:LEU:N	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:62:ARG:HB3	1:E:62:ARG:HE	1.54	0.41
1:B:48:LYS:HE3	1:B:50:ARG:NH1	2.35	0.41
1:C:8:PRO:HA	1:C:9:PRO:HD3	1.89	0.41
1:D:120:PRO:HD3	1:D:255:THR:OG1	2.19	0.41
1:D:30:LEU:HD23	1:D:30:LEU:C	2.41	0.41
1:D:145:ASP:OD1	1:D:147:GLU:CB	2.69	0.41
1:D:193:GLN:OE1	1:E:250:PRO:HG3	2.21	0.41
1:A:133:ARG:CZ	1:A:179:ARG:HB2	2.51	0.41
1:B:55:ASP:HB3	1:B:58:ARG:HB2	2.03	0.41
1:A:195:PHE:CE1	1:B:252:MET:CE	3.02	0.41
1:B:122:ASP:OD2	1:B:192:ARG:NH1	2.54	0.41
1:D:299:PHE:HB2	1:D:300:PRO:HD3	2.03	0.41
2:B:501:LMT:H4'	2:B:501:LMT:H4B	2.02	0.40
1:C:122:ASP:CG	1:C:192:ARG:HH11	2.25	0.40
1:C:310:LEU:HA	1:C:310:LEU:HD23	1.92	0.40
1:D:35:GLU:HG2	1:D:114:LEU:HG	2.03	0.40
1:E:50:ARG:C	1:E:52:LEU:N	2.75	0.40
1:D:220:SER:HB3	1:D:223:ALA:HB3	2.01	0.40
1:E:259:ILE:HG12	1:E:259:ILE:H	1.77	0.40
1:A:8:PRO:HA	1:A:9:PRO:HD3	1.89	0.40
1:B:255:THR:O	1:B:259:ILE:CG1	2.69	0.40
1:A:50:ARG:C	1:A:52:LEU:H	2.24	0.40
1:B:25:ILE:O	1:B:155:VAL:HG22	2.21	0.40
1:E:78:PHE:CE1	1:E:130:LEU:CD2	3.05	0.40
1:B:131:ILE:CD1	1:B:181:GLU:HG2	2.51	0.40
1:A:42:PHE:HB3	1:A:103:LEU:HD11	2.04	0.40
1:C:120:PRO:HD3	1:C:255:THR:OG1	2.22	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	309/317 (98%)	292 (94%)	15 (5%)	2 (1%)	30	67
1	B	309/317 (98%)	289 (94%)	19 (6%)	1 (0%)	46	79
1	C	309/317 (98%)	287 (93%)	20 (6%)	2 (1%)	30	67
1	D	309/317 (98%)	291 (94%)	16 (5%)	2 (1%)	30	67
1	E	309/317 (98%)	291 (94%)	17 (6%)	1 (0%)	46	79
All	All	1545/1585 (98%)	1450 (94%)	87 (6%)	8 (0%)	34	71

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	12	ALA
1	A	51	ARG
1	B	12	ALA
1	C	12	ALA
1	D	12	ALA
1	D	51	ARG
1	E	12	ALA
1	C	51	ARG

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	280/284 (99%)	263 (94%)	17 (6%)	23	56
1	B	280/284 (99%)	262 (94%)	18 (6%)	22	53
1	C	280/284 (99%)	260 (93%)	20 (7%)	18	47
1	D	280/284 (99%)	261 (93%)	19 (7%)	20	49
1	E	280/284 (99%)	257 (92%)	23 (8%)	14	39
All	All	1400/1420 (99%)	1303 (93%)	97 (7%)	19	48

All (97) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	14	GLU
1	A	28	TYR
1	A	35	GLU
1	A	61	VAL
1	A	69	GLU
1	A	86	ASP
1	A	111	LEU
1	A	152	ASN
1	A	154	ASP
1	A	178	ASP
1	A	180	LEU
1	A	181	GLU
1	A	189	ARG
1	A	259	ILE
1	A	280	LYS
1	A	283	SER
1	A	292	THR
1	B	11	ILE
1	B	14	GLU
1	B	17	THR
1	B	28	TYR
1	B	61	VAL
1	B	62	ARG
1	B	86	ASP
1	B	109	ARG
1	B	111	LEU
1	B	152	ASN
1	B	178	ASP
1	B	180	LEU
1	B	181	GLU
1	B	189	ARG
1	B	259	ILE
1	B	280	LYS
1	B	283	SER
1	B	304	LEU
1	C	11	ILE
1	C	14	GLU
1	C	28	TYR
1	C	48	LYS
1	C	58	ARG
1	C	61	VAL
1	C	62	ARG
1	C	64	LYS

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Mol	Chain	Res	Type
1	C	86	ASP
1	C	111	LEU
1	C	152	ASN
1	C	178	ASP
1	C	179	ARG
1	C	180	LEU
1	C	181	GLU
1	C	222	GLU
1	C	259	ILE
1	C	280	LYS
1	C	283	SER
1	C	304	LEU
1	D	14	GLU
1	D	17	THR
1	D	28	TYR
1	D	35	GLU
1	D	58	ARG
1	D	59	SER
1	D	62	ARG
1	D	86	ASP
1	D	111	LEU
1	D	141	VAL
1	D	152	ASN
1	D	178	ASP
1	D	179	ARG
1	D	180	LEU
1	D	181	GLU
1	D	189	ARG
1	D	225	VAL
1	D	280	LYS
1	D	304	LEU
1	E	11	ILE
1	E	14	GLU
1	E	28	TYR
1	E	35	GLU
1	E	48	LYS
1	E	58	ARG
1	E	64	LYS
1	E	65	THR
1	E	86	ASP
1	E	111	LEU
1	E	141	VAL

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Mol	Chain	Res	Type
1	E	152	ASN
1	E	154	ASP
1	E	178	ASP
1	E	180	LEU
1	E	181	GLU
1	E	189	ARG
1	E	222	GLU
1	E	225	VAL
1	E	259	ILE
1	E	280	LYS
1	E	283	SER
1	E	304	LEU

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

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

21 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	LMT	A	501	-	36,36,36	0.87	1 (2%)	47,47,47	1.55	9 (19%)
3	PC1	A	601	-	46,46,53	1.43	4 (8%)	50,54,61	1.57	6 (12%)
3	PC1	A	602	-	38,38,53	1.47	3 (7%)	42,46,61	1.43	5 (11%)
3	PC1	A	603	-	26,26,53	2.05	3 (11%)	28,28,61	2.58	6 (21%)
2	LMT	B	501	-	36,36,36	0.91	0	47,47,47	1.66	10 (21%)
3	PC1	B	601	-	46,46,53	1.40	4 (8%)	50,54,61	1.34	6 (12%)
3	PC1	B	602	-	38,38,53	1.40	3 (7%)	42,46,61	1.25	5 (11%)
3	PC1	B	603	-	25,25,53	1.96	2 (8%)	26,26,61	2.22	6 (23%)
2	LMT	C	501	-	36,36,36	0.91	1 (2%)	47,47,47	1.37	8 (17%)
2	LMT	C	502	-	36,36,36	1.28	4 (11%)	47,47,47	2.46	19 (40%)
3	PC1	C	601	-	46,46,53	1.49	4 (8%)	50,54,61	1.52	6 (12%)
3	PC1	C	602	-	38,38,53	1.39	3 (7%)	42,46,61	1.27	3 (7%)
3	PC1	C	603	-	26,26,53	2.04	4 (15%)	28,28,61	2.38	7 (25%)
3	PC1	D	601	-	46,46,53	1.37	3 (6%)	50,54,61	1.36	6 (12%)
3	PC1	D	602	-	38,38,53	1.41	3 (7%)	42,46,61	1.12	2 (4%)
3	PC1	D	603	-	17,20,53	1.16	1 (5%)	17,20,61	0.77	0
2	LMT	E	501	-	36,36,36	0.86	3 (8%)	47,47,47	1.38	6 (12%)
3	PC1	E	601	-	46,46,53	1.39	4 (8%)	50,54,61	1.73	6 (12%)
2	LMT	E	602	-	36,36,36	0.87	0	47,47,47	1.35	7 (14%)
3	PC1	E	603	-	38,38,53	1.33	3 (7%)	42,46,61	1.09	3 (7%)
3	PC1	E	604	-	26,26,53	1.70	3 (11%)	28,28,61	2.40	8 (28%)

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	LMT	A	501	-	6/6/10/10	0/21/61/61	0/2/2/2
3	PC1	A	601	-	1/1/5/5	0/50/50/57	0/0/0/0
3	PC1	A	602	-	1/1/5/5	0/42/42/57	0/0/0/0
3	PC1	A	603	-	1/1/3/5	1/27/27/57	0/0/0/0
2	LMT	B	501	-	6/6/10/10	0/21/61/61	0/2/2/2
3	PC1	B	601	-	1/1/5/5	0/50/50/57	0/0/0/0
3	PC1	B	602	-	1/1/5/5	0/42/42/57	0/0/0/0
3	PC1	B	603	-	-	0/25/25/57	0/0/0/0
2	LMT	C	501	-	6/6/10/10	1/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	LMT	C	502	-	6/6/10/10	0/21/61/61	0/2/2/2
3	PC1	C	601	-	1/1/5/5	0/50/50/57	0/0/0/0
3	PC1	C	602	-	1/1/5/5	0/42/42/57	0/0/0/0
3	PC1	C	603	-	1/1/3/5	2/27/27/57	0/0/0/0
3	PC1	D	601	-	1/1/5/5	0/50/50/57	0/0/0/0
3	PC1	D	602	-	1/1/5/5	0/42/42/57	0/0/0/0
3	PC1	D	603	-	-	0/15/17/57	0/0/0/0
2	LMT	E	501	-	6/6/10/10	0/21/61/61	0/2/2/2
3	PC1	E	601	-	1/1/5/5	0/50/50/57	0/0/0/0
2	LMT	E	602	-	6/6/10/10	0/21/61/61	0/2/2/2
3	PC1	E	603	-	1/1/5/5	0/42/42/57	0/0/0/0
3	PC1	E	604	-	1/1/3/5	2/27/27/57	0/0/0/0

All (56) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	501	LMT	O1'-C1'	2.03	1.43	1.40
2	E	501	LMT	O1B-C1B	2.03	1.47	1.41
3	C	603	PC1	O31-C3	2.09	1.49	1.45
2	A	501	LMT	O5B-C1B	2.12	1.47	1.41
2	E	501	LMT	O5B-C1B	2.13	1.47	1.41
3	B	601	PC1	C3-C2	2.14	1.56	1.50
2	C	501	LMT	O1'-C1'	2.17	1.44	1.40
3	E	601	PC1	C3-C2	2.17	1.56	1.50
3	A	601	PC1	C3-C2	2.31	1.57	1.50
2	C	502	LMT	C4B-C5B	2.44	1.58	1.53
2	C	502	LMT	O5'-C1'	2.69	1.48	1.41
3	E	604	PC1	C3-C2	2.80	1.57	1.50
3	C	601	PC1	C3-C2	2.83	1.58	1.50
3	E	603	PC1	P-O14	2.83	1.61	1.51
3	D	602	PC1	P-O14	3.01	1.62	1.51
2	C	502	LMT	C3'-C2'	3.04	1.60	1.52
3	C	601	PC1	P-O14	3.08	1.62	1.51
3	A	602	PC1	P-O14	3.10	1.62	1.51
3	C	602	PC1	P-O14	3.16	1.62	1.51
3	D	601	PC1	P-O14	3.22	1.62	1.51
3	B	601	PC1	P-O14	3.35	1.63	1.51
3	A	601	PC1	P-O14	3.39	1.63	1.51
3	B	602	PC1	P-O14	3.39	1.63	1.51
3	E	601	PC1	P-O14	3.53	1.64	1.51
2	C	502	LMT	O1'-C1'	3.73	1.46	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	603	PC1	C3-C2	3.90	1.60	1.50
3	A	603	PC1	C3-C2	3.94	1.60	1.50
3	E	601	PC1	O21-C21	4.25	1.47	1.34
3	A	601	PC1	O21-C21	4.31	1.47	1.34
3	C	601	PC1	O21-C21	4.39	1.47	1.34
3	D	601	PC1	O21-C21	4.41	1.47	1.34
3	B	601	PC1	O21-C21	4.42	1.47	1.34
3	D	603	PC1	O31-C31	4.43	1.48	1.32
3	E	603	PC1	O31-C31	4.63	1.47	1.33
3	B	602	PC1	O21-C21	4.68	1.48	1.34
3	D	602	PC1	O31-C31	4.73	1.47	1.33
3	A	602	PC1	O31-C31	4.73	1.47	1.33
3	C	602	PC1	O21-C21	4.74	1.48	1.34
3	B	602	PC1	O31-C31	4.79	1.47	1.33
3	E	603	PC1	O21-C21	4.89	1.48	1.34
3	E	604	PC1	O31-C31	5.11	1.48	1.33
3	C	602	PC1	O31-C31	5.13	1.48	1.33
3	E	601	PC1	O31-C31	5.47	1.49	1.33
3	D	602	PC1	O21-C21	5.51	1.50	1.34
3	A	601	PC1	O31-C31	5.60	1.50	1.33
3	B	603	PC1	O21-C21	5.65	1.50	1.33
3	D	601	PC1	O31-C31	5.72	1.50	1.33
3	A	602	PC1	O21-C21	5.73	1.51	1.34
3	E	604	PC1	O21-C21	5.78	1.51	1.34
3	B	601	PC1	O31-C31	5.91	1.51	1.33
3	A	603	PC1	O31-C31	5.94	1.51	1.33
3	A	603	PC1	O21-C21	5.96	1.52	1.34
3	C	601	PC1	O31-C31	6.10	1.51	1.33
3	C	603	PC1	O21-C21	6.10	1.52	1.34
3	B	603	PC1	O31-C31	6.38	1.52	1.33
3	C	603	PC1	O31-C31	6.57	1.53	1.33

All (134) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	502	LMT	C1B-O1B-C4'	-7.05	99.59	118.01
2	C	502	LMT	C1B-O5B-C5B	-4.94	104.15	113.75
2	C	502	LMT	C6'-C5'-C4'	-4.42	100.38	113.25
3	B	603	PC1	O21-C21-O22	-4.38	112.18	123.49
3	A	601	PC1	O31-C31-O32	-3.49	114.48	123.49
3	E	601	PC1	O31-C31-O32	-3.47	114.53	123.49
2	C	502	LMT	O3'-C3'-C4'	-3.13	102.48	109.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	601	PC1	O21-C21-O22	-3.06	115.47	123.67
3	A	602	PC1	O31-C31-O32	-3.01	115.73	123.49
2	E	501	LMT	C1B-O1B-C4'	-2.90	110.44	118.01
3	E	601	PC1	O21-C21-O22	-2.89	115.91	123.67
3	D	601	PC1	C3-C2-C1	-2.89	105.32	112.07
2	C	502	LMT	C1B-C2B-C3B	-2.84	104.37	109.97
3	B	602	PC1	O31-C31-O32	-2.72	116.47	123.49
2	E	501	LMT	C1-O1'-C1'	-2.50	109.57	113.94
3	E	603	PC1	O31-C31-O32	-2.40	117.29	123.49
3	E	604	PC1	O31-C31-O32	-2.39	117.33	123.49
3	E	601	PC1	C2-O21-C21	-2.32	112.32	117.89
3	C	603	PC1	O22-C21-C22	-2.31	114.47	123.72
3	A	601	PC1	O21-C21-O22	-2.21	117.75	123.67
3	E	604	PC1	O21-C21-O22	-2.20	117.76	123.67
3	D	601	PC1	O21-C21-O22	-2.09	118.05	123.67
3	B	601	PC1	O21-C21-O22	-2.09	118.07	123.67
3	C	601	PC1	O32-C31-C32	-2.05	115.51	123.72
3	B	602	PC1	O21-C21-O22	-2.04	118.18	123.67
3	B	601	PC1	O31-C31-O32	-2.01	118.29	123.49
2	C	502	LMT	O3B-C3B-C4B	-2.01	105.80	110.34
3	B	602	PC1	O31-C3-C2	2.03	114.14	108.69
3	B	601	PC1	C3-O31-C31	2.04	122.56	116.85
2	A	501	LMT	O5B-C5B-C6B	2.06	111.56	106.36
2	C	501	LMT	O2'-C2'-C1'	2.07	114.55	110.02
2	C	501	LMT	O5'-C5'-C4'	2.07	114.11	109.75
2	A	501	LMT	O3'-C3'-C4'	2.07	114.77	109.87
2	A	501	LMT	O5'-C5'-C4'	2.08	114.13	109.75
2	C	501	LMT	C1'-O5'-C5'	2.10	117.82	113.75
2	E	602	LMT	O5B-C5B-C6B	2.10	111.67	106.36
3	C	601	PC1	O31-C3-C2	2.13	114.42	108.69
2	B	501	LMT	C1B-C2B-C3B	2.13	114.17	109.97
2	B	501	LMT	O5B-C5B-C6B	2.13	111.75	106.36
2	E	501	LMT	C1B-O5B-C5B	2.14	117.89	113.75
3	D	601	PC1	O21-C2-C3	2.16	115.98	108.36
2	A	501	LMT	O5'-C5'-C6'	2.17	111.84	106.36
2	C	502	LMT	O4'-C4B-C5B	2.21	115.08	109.24
3	A	602	PC1	C3-O31-C31	2.21	123.03	116.85
2	E	602	LMT	C1B-O5B-C5B	2.23	118.07	113.75
3	B	601	PC1	O21-C2-C3	2.23	116.21	108.36
2	E	602	LMT	C1'-O5'-C5'	2.31	118.23	113.75
2	C	502	LMT	O5'-C1'-O1'	2.33	115.67	110.05
2	B	501	LMT	O1B-C4'-C3'	2.36	113.25	107.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	602	LMT	C3B-C4B-C5B	2.36	114.32	110.20
2	E	602	LMT	O3'-C3'-C4'	2.39	115.53	109.87
2	B	501	LMT	O5B-C1B-C2B	2.51	115.42	110.28
2	C	501	LMT	O5B-C1B-C2B	2.53	115.47	110.28
2	C	501	LMT	O2B-C2B-C3B	2.53	116.04	110.34
3	E	604	PC1	O31-C3-C2	2.54	115.41	108.61
2	E	602	LMT	O5'-C5'-C6'	2.54	112.77	106.36
2	E	501	LMT	O1B-C4'-C3'	2.55	113.75	107.17
2	C	502	LMT	O1B-C1B-O5B	2.57	117.18	110.68
2	E	501	LMT	C3B-C4B-C5B	2.57	114.69	110.20
2	B	501	LMT	C1B-O5B-C5B	2.73	119.04	113.75
3	A	601	PC1	C3-O31-C31	2.80	124.68	116.85
3	C	602	PC1	C3-O31-C31	2.85	124.82	116.85
3	E	604	PC1	C3-O31-C31	2.88	124.90	116.85
3	B	603	PC1	O31-C31-C32	2.88	120.68	111.90
2	C	502	LMT	C3B-C4B-C5B	2.90	115.25	110.20
3	A	601	PC1	O31-C3-C2	2.91	116.52	108.69
2	A	501	LMT	O5B-C5B-C4B	2.92	115.17	109.68
2	B	501	LMT	O3'-C3'-C4'	2.93	116.80	109.87
2	C	501	LMT	C3'-C4'-C5'	3.05	117.74	110.84
3	E	601	PC1	C3-O31-C31	3.06	125.40	116.85
2	B	501	LMT	C3'-C4'-C5'	3.06	117.76	110.84
2	E	602	LMT	O1B-C4'-C3'	3.18	115.37	107.17
2	C	502	LMT	C1'-O5'-C5'	3.24	120.03	113.75
3	D	602	PC1	O31-C31-C32	3.24	121.77	111.90
2	A	501	LMT	C1B-C2B-C3B	3.29	116.46	109.97
3	A	603	PC1	O31-C31-C32	3.32	122.03	111.90
2	C	502	LMT	C2'-C3'-C4'	3.34	116.94	109.60
2	C	502	LMT	C3'-C4'-C5'	3.34	118.40	110.84
2	C	501	LMT	O1'-C1'-C2'	3.35	112.28	108.04
3	B	603	PC1	O21-C2-C3	3.35	118.50	108.54
3	D	601	PC1	C3-O31-C31	3.36	126.25	116.85
2	C	501	LMT	O3'-C3'-C4'	3.37	117.84	109.87
3	C	602	PC1	O31-C31-C32	3.40	122.26	111.90
3	A	602	PC1	C2-O21-C21	3.40	126.05	117.89
3	C	603	PC1	O31-C31-C32	3.45	122.42	111.90
2	C	502	LMT	O1B-C4'-C3'	3.47	116.13	107.17
3	E	603	PC1	O31-C31-C32	3.49	122.52	111.90
2	B	501	LMT	C3B-C4B-C5B	3.57	116.41	110.20
3	B	603	PC1	O31-C3-C2	3.58	119.17	108.54
3	A	603	PC1	O31-C3-C2	3.67	118.44	108.61
3	D	602	PC1	O21-C21-C22	3.70	119.57	111.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	E	604	PC1	O31-C31-C32	3.73	123.25	111.90
2	C	502	LMT	O5B-C5B-C4B	3.77	116.76	109.68
3	B	602	PC1	O21-C21-C22	3.80	119.78	111.53
2	C	502	LMT	O5'-C5'-C6'	3.82	116.02	106.36
2	E	501	LMT	O5'-C5'-C6'	3.84	116.07	106.36
2	A	501	LMT	O5B-C1B-C2B	3.84	118.16	110.28
3	E	603	PC1	O21-C21-C22	3.85	119.90	111.53
2	C	502	LMT	O1'-C1'-C2'	3.91	112.98	108.04
2	A	501	LMT	C1B-O5B-C5B	4.14	121.78	113.75
2	A	501	LMT	O1B-C4'-C3'	4.16	117.92	107.17
2	B	501	LMT	O5'-C5'-C4'	4.17	118.55	109.75
2	B	501	LMT	O5B-C5B-C4B	4.19	117.54	109.68
3	B	602	PC1	O31-C31-C32	4.21	124.72	111.90
3	C	603	PC1	C2-O21-C21	4.24	123.39	117.92
3	C	602	PC1	O21-C21-C22	4.28	120.83	111.53
3	D	601	PC1	O31-C31-C32	4.35	125.16	111.90
3	B	601	PC1	O31-C31-C32	4.36	125.17	111.90
3	A	602	PC1	O31-C31-C32	4.37	125.23	111.90
3	C	601	PC1	O31-C31-C32	4.42	125.38	111.90
3	A	602	PC1	O21-C21-C22	4.48	121.28	111.53
3	E	604	PC1	O21-C2-C3	4.49	116.07	105.90
2	C	502	LMT	C1'-C2'-C3'	4.51	118.85	109.97
3	D	601	PC1	O21-C21-C22	4.53	121.37	111.53
3	C	603	PC1	O31-C3-C2	4.53	120.74	108.61
2	C	502	LMT	O1B-C1B-C2B	4.61	119.32	108.10
3	C	601	PC1	C3-O31-C31	4.66	129.90	116.85
3	C	603	PC1	C3-O31-C31	4.83	130.35	116.85
3	B	601	PC1	O21-C21-C22	5.12	122.67	111.53
3	E	601	PC1	O31-C31-C32	5.13	127.53	111.90
3	C	603	PC1	O21-C2-C3	5.19	117.67	105.90
3	B	603	PC1	O21-C21-C22	5.22	127.80	111.90
3	A	601	PC1	O31-C31-C32	5.33	128.13	111.90
3	B	603	PC1	C3-O31-C31	5.43	132.22	117.02
3	A	603	PC1	O21-C2-C3	5.63	118.65	105.90
3	A	603	PC1	C2-O21-C21	5.83	125.44	117.92
3	A	603	PC1	O21-C21-C22	5.89	124.33	111.53
3	C	601	PC1	O21-C21-C22	6.02	124.62	111.53
3	A	601	PC1	O21-C21-C22	6.43	125.51	111.53
3	A	603	PC1	C3-O31-C31	6.53	135.10	116.85
3	C	603	PC1	O21-C21-C22	6.57	125.82	111.53
3	E	604	PC1	O21-C21-C22	6.67	126.03	111.53
3	E	604	PC1	C2-O21-C21	6.89	126.81	117.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	E	601	PC1	O21-C21-C22	7.41	127.64	111.53

All (49) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
3	D	602	PC1	C2
3	A	601	PC1	C2
2	B	501	LMT	C1B
2	B	501	LMT	C4'
2	B	501	LMT	C5'
2	B	501	LMT	C3B
2	B	501	LMT	C5B
2	B	501	LMT	C3'
2	E	501	LMT	C1B
2	E	501	LMT	C4'
2	E	501	LMT	C5'
2	E	501	LMT	C3B
2	E	501	LMT	C5B
2	E	501	LMT	C3'
3	A	602	PC1	C2
3	E	603	PC1	C2
2	A	501	LMT	C1B
2	A	501	LMT	C4'
2	A	501	LMT	C5'
2	A	501	LMT	C3B
2	A	501	LMT	C5B
2	A	501	LMT	C3'
2	C	501	LMT	C1B
2	C	501	LMT	C4'
2	C	501	LMT	C5'
2	C	501	LMT	C3B
2	C	501	LMT	C5B
2	C	501	LMT	C3'
3	A	603	PC1	C2
3	B	601	PC1	C2
3	D	601	PC1	C2
3	C	603	PC1	C2
2	C	502	LMT	C1B
2	C	502	LMT	C4'
2	C	502	LMT	C5'
2	C	502	LMT	C3B
2	C	502	LMT	C5B

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Mol	Chain	Res	Type	Atom
2	C	502	LMT	C3'
3	E	604	PC1	C2
3	C	602	PC1	C2
3	E	601	PC1	C2
3	C	601	PC1	C2
3	B	602	PC1	C2
2	E	602	LMT	C1B
2	E	602	LMT	C4'
2	E	602	LMT	C5'
2	E	602	LMT	C3B
2	E	602	LMT	C5B
2	E	602	LMT	C3'

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	603	PC1	C2-O21-C21-C22
3	C	603	PC1	C2-O21-C21-O22
3	C	603	PC1	C2-O21-C21-C22
3	E	604	PC1	C2-O21-C21-O22
2	C	501	LMT	C1'-O1'-C1-C2
3	E	604	PC1	C2-O21-C21-C22

There are no ring outliers.

17 monomers are involved in 44 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	601	PC1	1	0
3	A	602	PC1	1	0
2	B	501	LMT	9	0
3	B	601	PC1	4	0
3	B	602	PC1	2	0
3	B	603	PC1	1	0
2	C	501	LMT	6	0
3	C	601	PC1	1	0
3	C	602	PC1	2	0
3	C	603	PC1	1	0
3	D	601	PC1	1	0
3	D	602	PC1	5	0
3	D	603	PC1	1	0
2	E	501	LMT	5	0
3	E	601	PC1	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	E	602	LMT	3	0
3	E	603	PC1	4	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	311/317 (98%)	-0.69	6 (1%) 70 66	31, 48, 83, 109	0
1	B	311/317 (98%)	-0.68	4 (1%) 79 78	31, 48, 77, 88	0
1	C	311/317 (98%)	-0.68	5 (1%) 74 72	31, 48, 80, 100	0
1	D	311/317 (98%)	-0.68	9 (2%) 55 49	31, 48, 83, 108	0
1	E	311/317 (98%)	-0.68	5 (1%) 74 72	31, 48, 80, 95	0
All	All	1555/1585 (98%)	-0.68	29 (1%) 70 66	31, 48, 81, 109	0

All (29) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	11	ILE	3.8
1	D	60	GLY	3.3
1	D	58	ARG	3.2
1	D	57	VAL	3.0
1	E	178	ASP	3.0
1	A	60	GLY	2.9
1	A	58	ARG	2.9
1	C	58	ARG	2.9
1	C	153	ASP	2.8
1	E	153	ASP	2.6
1	D	5	VAL	2.6
1	B	153	ASP	2.5
1	D	59	SER	2.5
1	B	178	ASP	2.4
1	A	11	ILE	2.4
1	C	178	ASP	2.4
1	B	13	ASP	2.3
1	B	154	ASP	2.3
1	E	11	ILE	2.3
1	A	154	ASP	2.2

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Mol	Chain	Res	Type	RSRZ
1	C	154	ASP	2.2
1	D	147	GLU	2.2
1	A	61	VAL	2.2
1	D	154	ASP	2.2
1	E	245	ASN	2.2
1	A	153	ASP	2.1
1	E	60	GLY	2.1
1	D	11	ILE	2.1
1	D	245	ASN	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

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

6.3 Carbohydrates [i](#)

There are no 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	PC1	B	602	39/54	0.80	0.27	5.01	60,97,131,131	0
3	PC1	D	602	39/54	0.83	0.22	3.38	64,84,125,125	0
3	PC1	D	603	22/54	0.78	0.26	3.35	61,75,89,91	0
3	PC1	A	602	39/54	0.74	0.26	3.03	75,94,137,137	0
3	PC1	E	603	39/54	0.81	0.23	2.89	61,102,134,134	0
3	PC1	C	602	39/54	0.80	0.24	2.55	70,97,132,132	0
3	PC1	E	604	27/54	0.82	0.23	2.37	64,73,92,93	0
2	LMT	C	501	35/35	0.82	0.26	2.27	29,118,140,140	0
3	PC1	A	603	27/54	0.76	0.26	2.21	62,90,102,104	0
3	PC1	B	603	26/54	0.81	0.23	2.12	52,72,85,87	0
2	LMT	C	502	35/35	0.90	0.14	2.05	28,76,85,91	0
3	PC1	C	603	27/54	0.83	0.23	1.86	61,77,91,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
3	PC1	C	601	47/54	0.77	0.23	1.73	66,96,137,137	0
2	LMT	A	501	35/35	0.86	0.20	1.62	27,120,139,140	0
2	LMT	E	602	35/35	0.83	0.24	1.61	42,127,153,154	0
2	LMT	B	501	35/35	0.85	0.21	1.58	38,120,134,135	0
3	PC1	A	601	47/54	0.82	0.22	1.28	67,85,115,115	0
3	PC1	B	601	47/54	0.81	0.23	1.21	65,89,126,127	0
3	PC1	D	601	47/54	0.80	0.21	1.10	66,84,115,115	0
2	LMT	E	501	35/35	0.88	0.20	0.97	25,107,130,132	0
3	PC1	E	601	47/54	0.86	0.20	0.83	50,81,114,115	0

6.5 Other polymers [i](#)

There are no such residues in this entry.