



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 05:31 PM GMT

PDB ID : 4ILC
Title : The GLIC pentameric ligand-gated ion channel in complex with sulfates
Authors : Sauguet, L.; Malherbe, L.; Corringer, P.J.; Delarue, M.
Deposited on : 2012-12-29
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
<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

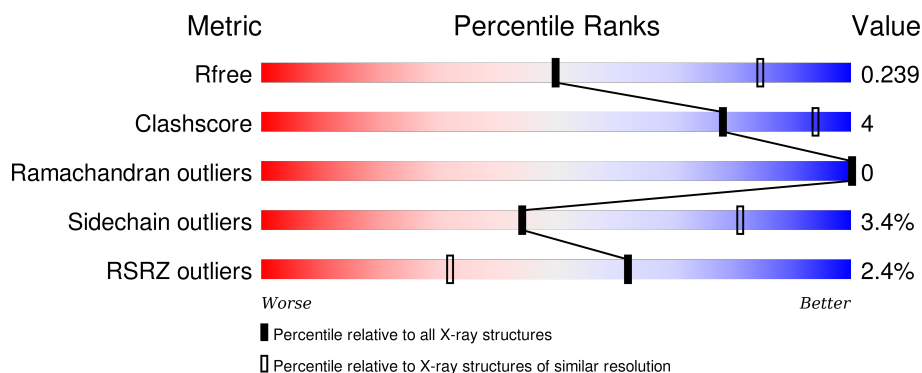
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.99 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}	91344	1578 (3.00-3.00)
Clashscore	102246	1912 (3.00-3.00)
Ramachandran outliers	100387	1853 (3.00-3.00)
Sidechain outliers	100360	1856 (3.00-3.00)
RSRZ outliers	91569	1592 (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 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	320	<div> <div>2%</div> <div>86%</div> <div>11%</div> <div>• •</div> </div>
1	B	320	<div> <div>2%</div> <div>86%</div> <div>9%</div> <div>• •</div> </div>
1	C	320	<div> <div>3%</div> <div>86%</div> <div>11%</div> <div>• •</div> </div>
1	D	320	<div> <div>3%</div> <div>86%</div> <div>10%</div> <div>• •</div> </div>
1	E	320	<div> <div>2%</div> <div>86%</div> <div>10%</div> <div>• •</div> </div>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	ACT	A	407	-	-	-	X
2	ACT	B	407	-	-	-	X
2	ACT	C	401	-	-	-	X
2	ACT	C	407	-	-	-	X
2	ACT	D	401	-	-	X	-
2	ACT	D	407	-	-	-	X
2	ACT	E	401	-	-	-	X
2	ACT	E	407	-	-	-	X
3	PLC	A	402	-	-	-	X
3	PLC	B	402	-	-	-	X
3	PLC	C	402	-	-	-	X
3	PLC	D	402	-	-	-	X
3	PLC	E	402	-	-	-	X
4	UNL	A	405	-	-	-	X
4	UNL	B	405	-	-	-	X
4	UNL	C	405	-	-	-	X
4	UNL	D	405	-	-	-	X
4	UNL	E	405	-	-	-	X
6	LMT	A	409	-	-	-	X
6	LMT	B	408	-	-	-	X
6	LMT	C	408	-	-	-	X
6	LMT	D	408	-	-	-	X
6	LMT	E	408	-	-	-	X
7	NA	B	409	-	-	-	X
7	NA	E	409	-	-	-	X
8	SO4	A	411	-	-	-	X
8	SO4	B	410	-	-	-	X
8	SO4	C	411	-	-	-	X
8	SO4	D	410	-	-	-	X
8	SO4	E	410	-	-	-	X

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 13223 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 Proton-gated ion channel.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	311	Total	C	N	O	S	0	2	0
			2539	1672	405	458	4			
1	B	311	Total	C	N	O	S	0	1	0
			2531	1668	404	455	4			
1	C	311	Total	C	N	O	S	0	1	0
			2531	1668	404	455	4			
1	D	311	Total	C	N	O	S	0	4	0
			2547	1678	405	460	4			
1	E	311	Total	C	N	O	S	0	2	0
			2537	1673	405	455	4			

There are 25 discrepancies between the modelled and reference sequences:

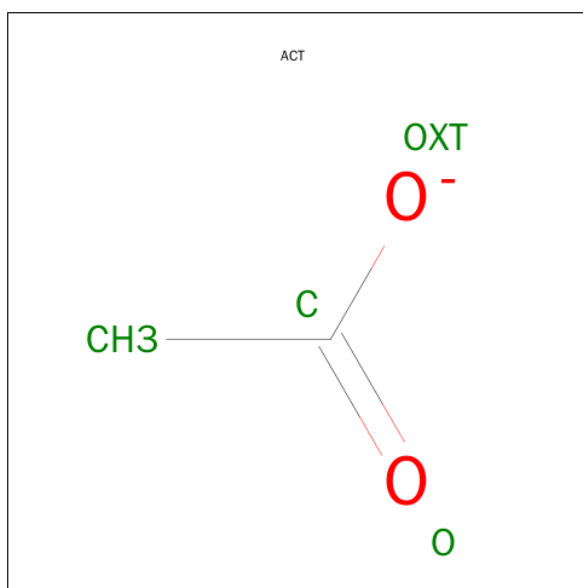
Chain	Residue	Modelled	Actual	Comment	Reference
A	-3	GLY	-	EXPRESSION TAG	UNP Q7NDN8
A	-2	SER	-	EXPRESSION TAG	UNP Q7NDN8
A	-1	ALA	-	EXPRESSION TAG	UNP Q7NDN8
A	0	ALA	-	EXPRESSION TAG	UNP Q7NDN8
A	1	ALA	-	EXPRESSION TAG	UNP Q7NDN8
B	-3	GLY	-	EXPRESSION TAG	UNP Q7NDN8
B	-2	SER	-	EXPRESSION TAG	UNP Q7NDN8
B	-1	ALA	-	EXPRESSION TAG	UNP Q7NDN8
B	0	ALA	-	EXPRESSION TAG	UNP Q7NDN8
B	1	ALA	-	EXPRESSION TAG	UNP Q7NDN8
C	-3	GLY	-	EXPRESSION TAG	UNP Q7NDN8
C	-2	SER	-	EXPRESSION TAG	UNP Q7NDN8
C	-1	ALA	-	EXPRESSION TAG	UNP Q7NDN8
C	0	ALA	-	EXPRESSION TAG	UNP Q7NDN8
C	1	ALA	-	EXPRESSION TAG	UNP Q7NDN8
D	-3	GLY	-	EXPRESSION TAG	UNP Q7NDN8
D	-2	SER	-	EXPRESSION TAG	UNP Q7NDN8
D	-1	ALA	-	EXPRESSION TAG	UNP Q7NDN8
D	0	ALA	-	EXPRESSION TAG	UNP Q7NDN8

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Chain	Residue	Modelled	Actual	Comment	Reference
D	1	ALA	-	EXPRESSION TAG	UNP Q7NDN8
E	-3	GLY	-	EXPRESSION TAG	UNP Q7NDN8
E	-2	SER	-	EXPRESSION TAG	UNP Q7NDN8
E	-1	ALA	-	EXPRESSION TAG	UNP Q7NDN8
E	0	ALA	-	EXPRESSION TAG	UNP Q7NDN8
E	1	ALA	-	EXPRESSION TAG	UNP Q7NDN8

- Molecule 2 is ACETATE ION (three-letter code: ACT) (formula: C₂H₃O₂).



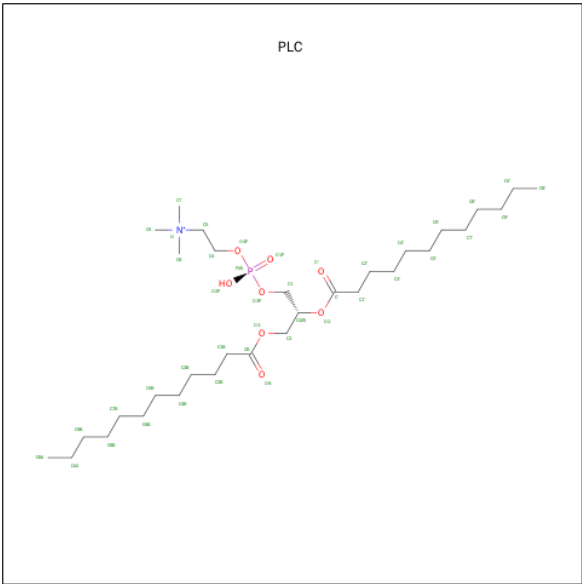
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 4 2 2	0	0
2	A	1	Total C O 4 2 2	0	0
2	B	1	Total C O 4 2 2	0	0
2	B	1	Total C O 4 2 2	0	0
2	C	1	Total C O 4 2 2	0	0
2	C	1	Total C O 4 2 2	0	0
2	D	1	Total C O 4 2 2	0	0
2	D	1	Total C O 4 2 2	0	0

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

- Molecule 3 is DIUNDECYL PHOSPHATIDYL CHOLINE (three-letter code: PLC) (formula: C₃₂H₆₅NO₈P).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	0
			34	24	1	8	1		
3	A	1	Total	C				0	0
			12	12					
3	B	1	Total	C	N	O	P	0	0
			34	24	1	8	1		
3	B	1	Total	C				0	0
			12	12					
3	C	1	Total	C	N	O	P	0	0
			34	24	1	8	1		
3	C	1	Total	C				0	0
			12	12					
3	D	1	Total	C	N	O	P	0	0
			34	24	1	8	1		
3	D	1	Total	C				0	0
			12	12					
3	E	1	Total	C	N	O	P	0	0
			34	24	1	8	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	E	1	Total C 12 12	0	0

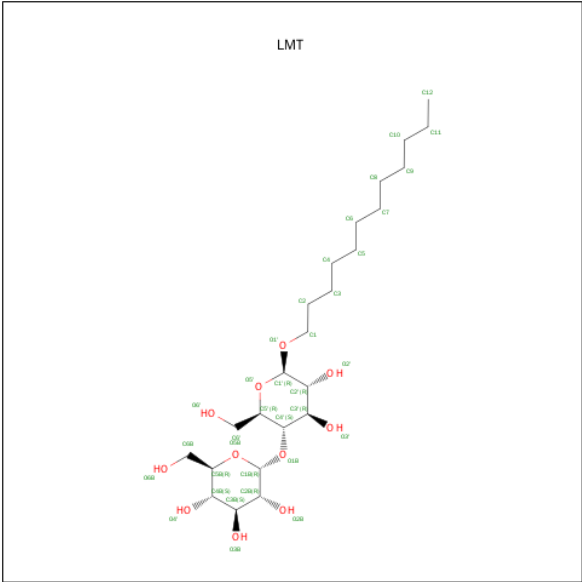
- Molecule 4 is UNKNOWN LIGAND (three-letter code: UNL) (formula:).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	B	2	Total C 24 24	0	0
4	A	2	Total C 24 24	0	0
4	D	2	Total C 24 24	0	0
4	C	2	Total C 24 24	0	0
4	E	2	Total C 24 24	0	0

- Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	B	1	Total Cl 1 1	0	0
5	A	1	Total Cl 1 1	0	0
5	D	1	Total Cl 1 1	0	0
5	C	1	Total Cl 1 1	0	0
5	E	1	Total Cl 1 1	0	0

- Molecule 6 is DODECYL-BETA-D-MALTOSIDE (three-letter code: LMT) (formula: C₂₄H₄₆O₁₁).

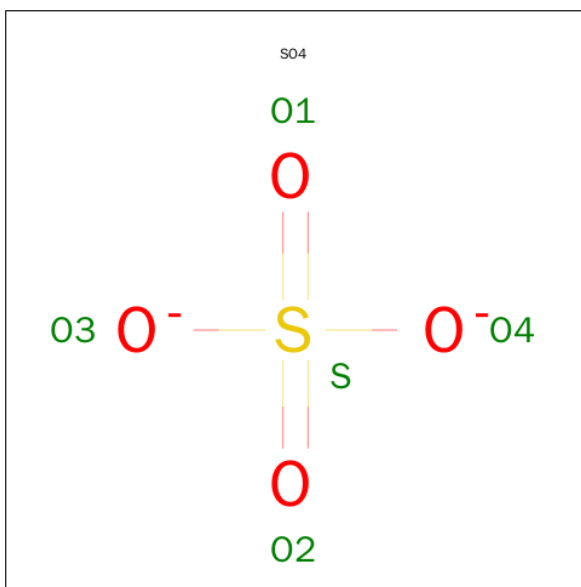


Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	1	Total	C	0	0
			12	12		
6	A	1	Total	C	0	0
			12	12		
6	B	1	Total	C	0	0
			12	12		
6	C	1	Total	C	0	0
			12	12		
6	D	1	Total	C	0	0
			12	12		
6	E	1	Total	C	0	0
			12	12		

- Molecule 7 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	B	1	Total	Na	0	0
			1	1		
7	A	1	Total	Na	0	0
			1	1		
7	D	1	Total	Na	0	0
			1	1		
7	C	2	Total	Na	0	0
			2	2		
7	E	1	Total	Na	0	0
			1	1		

- Molecule 8 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	A	1	Total	O	S	0	0
			5	4	1		
8	B	1	Total	O	S	0	0
			5	4	1		
8	C	1	Total	O	S	0	0
			5	4	1		
8	D	1	Total	O	S	0	0
			5	4	1		
8	E	1	Total	O	S	0	0
			5	4	1		

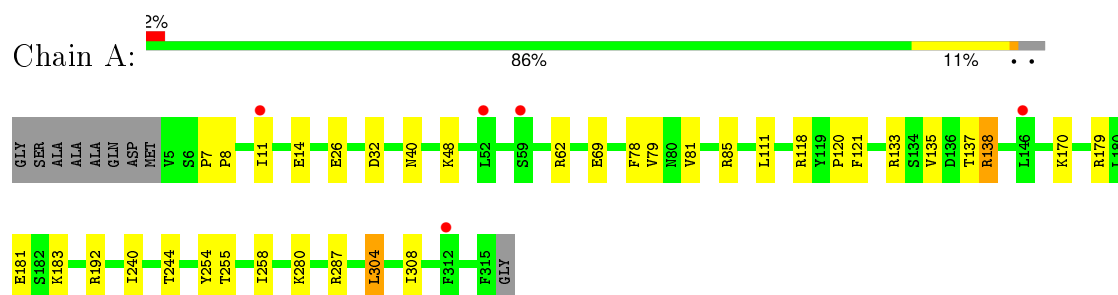
- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	2	Total	O	0	0
			2	2		
9	B	11	Total	O	0	0
			11	11		
9	C	7	Total	O	0	0
			7	7		
9	D	14	Total	O	0	0
			14	14		
9	E	6	Total	O	0	0
			6	6		

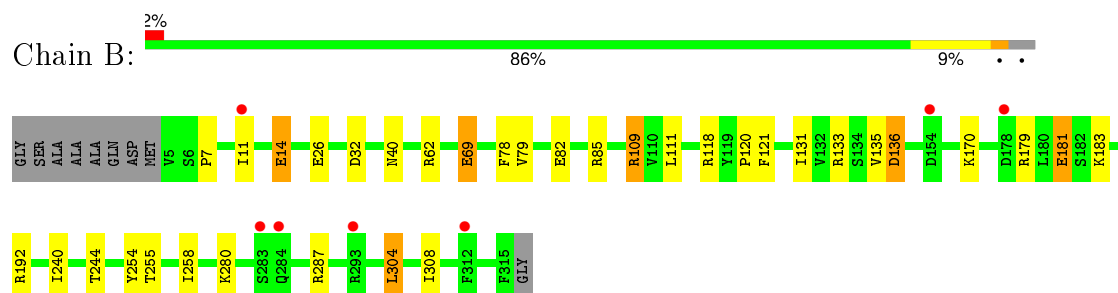
3 Residue-property plots [i](#)

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.

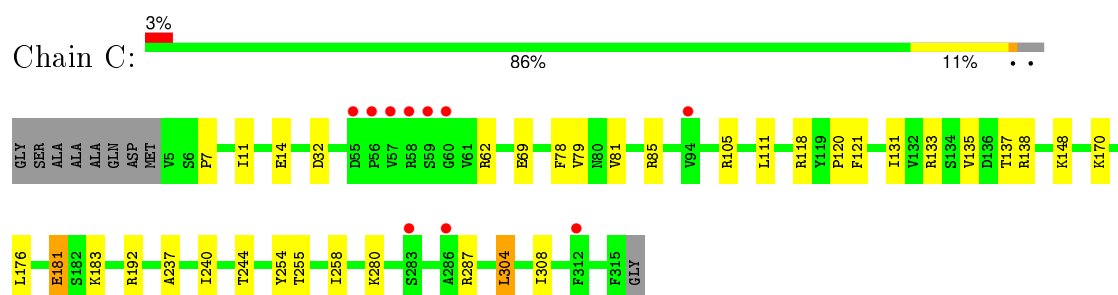
- Molecule 1: Proton-gated ion channel



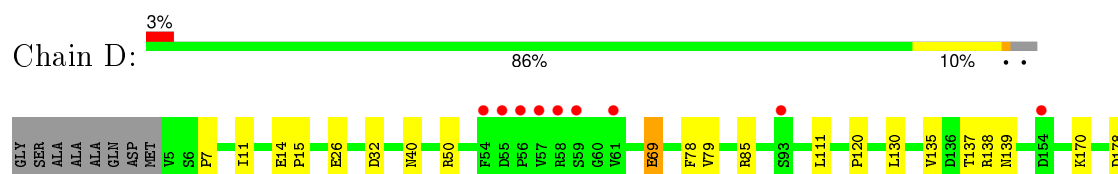
- Molecule 1: Proton-gated ion channel

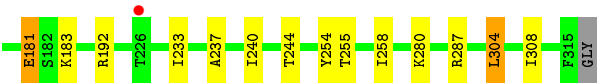


- Molecule 1: Proton-gated ion channel

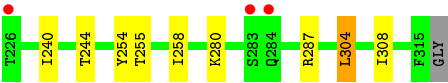
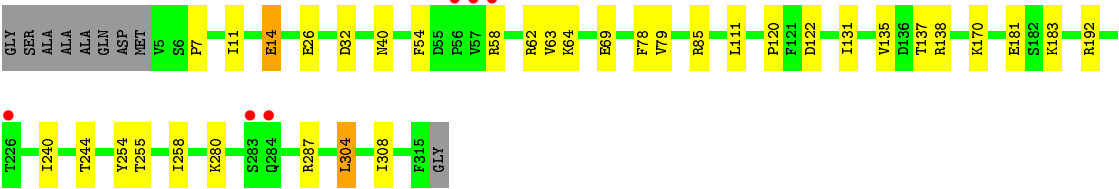
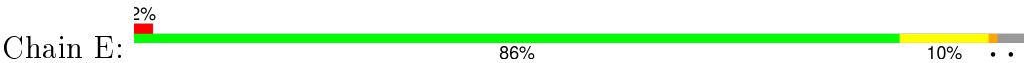


- Molecule 1: Proton-gated ion channel





● Molecule 1: Proton-gated ion channel



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	182.33Å 132.10Å 161.14Å 90.00° 103.02° 90.00°	Depositor
Resolution (Å)	34.53 – 2.99 49.52 – 2.99	Depositor EDS
% Data completeness (in resolution range)	99.4 (34.53-2.99) 99.6 (49.52-2.99)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.43 (at 3.01Å)	Xtriage
Refinement program	BUSTER 2.11.2	Depositor
R, R_{free}	0.215 , 0.236 0.220 , 0.239	Depositor DCC
R_{free} test set	3780 reflections (5.32%)	DCC
Wilson B-factor (Å ²)	65.8	Xtriage
Anisotropy	0.350	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 53.7	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 74893 reflections	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	13223	wwPDB-VP
Average B, all atoms (Å ²)	68.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.77% 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: CL, NA, LMT, PLC, SO4, ACT, UNL

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	0.47	0/2610	0.69	0/3568
1	B	0.48	0/2602	0.70	0/3557
1	C	0.48	0/2602	0.70	0/3557
1	D	0.47	0/2627	0.70	0/3591
1	E	0.48	0/2611	0.71	0/3568
All	All	0.48	0/13052	0.70	0/17841

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [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	2539	0	2554	17	0
1	B	2531	0	2551	19	0
1	C	2531	0	2551	19	0
1	D	2547	0	2567	20	0
1	E	2537	0	2564	17	0
2	A	8	0	6	1	0
2	B	8	0	6	0	0
2	C	8	0	6	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	D	8	0	6	2	0
2	E	8	0	6	0	0
3	A	46	0	65	2	0
3	B	46	0	65	3	0
3	C	46	0	65	3	0
3	D	46	0	65	1	0
3	E	46	0	65	1	0
4	A	24	0	0	0	0
4	B	24	0	0	0	0
4	C	24	0	0	0	0
4	D	24	0	0	0	0
4	E	24	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
5	D	1	0	0	0	0
5	E	1	0	0	0	0
6	A	24	0	46	1	0
6	B	12	0	23	0	0
6	C	12	0	23	1	0
6	D	12	0	23	2	0
6	E	12	0	23	1	0
7	A	1	0	0	0	0
7	B	1	0	0	0	0
7	C	2	0	0	0	0
7	D	1	0	0	0	0
7	E	1	0	0	0	0
8	A	5	0	0	0	0
8	B	5	0	0	0	0
8	C	5	0	0	0	0
8	D	5	0	0	0	0
8	E	5	0	0	0	0
9	A	2	0	0	0	0
9	B	11	0	0	0	0
9	C	7	0	0	0	0
9	D	14	0	0	0	0
9	E	6	0	0	0	0
All	All	13223	0	13280	94	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 4.

All (94) 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:133:ARG:NH1	1:C:176:LEU:O	2.10	0.83
1:D:15:PRO:HB3	1:D:139[B]:ASN:HD22	1.49	0.78
1:D:15:PRO:HB3	1:D:139[B]:ASN:ND2	2.03	0.73
1:C:11:ILE:HG13	1:C:14:GLU:OE2	1.91	0.70
1:D:11:ILE:HG13	1:D:14:GLU:OE2	1.98	0.63
1:C:148:LYS:NZ	1:D:178:ASP:OD2	2.32	0.63
1:A:11:ILE:HG13	1:A:14:GLU:OE2	1.99	0.62
3:E:402:PLC:H1'1	3:E:403:PLC:H8A2	1.84	0.60
1:D:7:PRO:HG3	1:D:135:VAL:HG21	1.84	0.59
1:C:131:ILE:HD11	1:C:181:GLU:HG2	1.84	0.58
1:C:7:PRO:HG3	1:C:135:VAL:HG21	1.86	0.58
3:D:402:PLC:H1'1	3:D:403:PLC:H8A2	1.86	0.58
3:B:402:PLC:H1'1	3:B:403:PLC:H8A2	1.87	0.57
1:A:7:PRO:HG3	1:A:135:VAL:HG21	1.86	0.56
1:B:82:GLU:HG3	1:B:109:ARG:HG2	1.88	0.55
1:A:240:ILE:O	1:A:244:THR:HG23	2.09	0.53
1:B:118:ARG:HH12	3:B:402:PLC:H72	1.74	0.53
1:B:136:ASP:OD1	1:B:136:ASP:N	2.39	0.53
1:A:181:GLU:OE2	2:A:401:ACT:OXT	2.27	0.52
1:D:240:ILE:O	1:D:244:THR:HG23	2.10	0.52
1:C:240:ILE:O	1:C:244:THR:HG23	2.09	0.52
1:A:78:PHE:CE2	1:A:85:ARG:HD3	2.45	0.52
1:B:240:ILE:O	1:B:244:THR:HG23	2.10	0.52
3:C:402:PLC:H1'1	3:C:403:PLC:H8A2	1.91	0.51
1:E:11:ILE:HG13	1:E:14:GLU:OE2	2.09	0.51
1:D:181:GLU:OE2	2:D:401:ACT:O	2.28	0.51
1:C:78:PHE:CE2	1:C:85:ARG:HD3	2.46	0.51
1:D:78:PHE:CE2	1:D:85:ARG:HD3	2.46	0.51
1:E:240:ILE:O	1:E:244:THR:HG23	2.11	0.50
1:A:32:ASP:CG	1:A:192:ARG:HH22	2.14	0.50
1:E:7:PRO:HG3	1:E:135:VAL:HG21	1.94	0.50
1:B:7:PRO:HG3	1:B:135:VAL:HG21	1.94	0.50
1:B:32:ASP:CG	1:B:192:ARG:HH22	2.16	0.50
1:B:78:PHE:CE2	1:B:85:ARG:HD3	2.47	0.49
1:D:237:ALA:HA	6:D:408:LMT:H81	1.93	0.49
1:E:78:PHE:CE2	1:E:85:ARG:HD3	2.47	0.49
1:D:32:ASP:CG	1:D:192:ARG:HH22	2.15	0.49
1:A:118:ARG:HH12	3:A:402:PLC:H72	1.78	0.48
1:E:32:ASP:CG	1:E:192:ARG:HH22	2.16	0.48
1:C:32:ASP:CG	1:C:192:ARG:HH22	2.17	0.48
1:E:54:PHE:CD2	1:E:64:LYS:HD2	2.49	0.48
1:C:237:ALA:HA	6:C:408:LMT:H92	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:120:PRO:HD3	1:C:255:THR:OG1	2.15	0.47
1:D:120:PRO:HD3	1:D:255:THR:OG1	2.15	0.46
1:B:120:PRO:HD3	1:B:255:THR:OG1	2.16	0.46
1:B:11:ILE:HG13	1:B:14:GLU:OE2	2.15	0.46
1:A:120:PRO:HD3	1:A:255:THR:OG1	2.15	0.46
1:B:131:ILE:HD11	1:B:181:GLU:HG2	1.98	0.46
1:A:8:PRO:O	1:A:138:ARG:HD3	2.16	0.45
1:E:26[B]:GLU:HB2	1:E:40:ASN:HB3	1.98	0.45
1:D:233:ILE:HG23	6:D:408:LMT:H122	1.99	0.45
1:A:121:PHE:CE2	3:A:402:PLC:H1A2	2.52	0.45
1:D:26[B]:GLU:HB2	1:D:40:ASN:HB3	2.00	0.44
1:C:121:PHE:CE2	3:C:402:PLC:H1A2	2.53	0.44
1:D:78:PHE:HE2	1:D:85:ARG:HD3	1.83	0.43
1:C:254:TYR:CZ	1:C:258:ILE:HD11	2.53	0.43
1:A:79:VAL:HG21	1:A:183:LYS:HD2	1.99	0.43
1:A:254:TYR:CZ	1:A:258:ILE:HD11	2.54	0.43
1:A:26[B]:GLU:HB2	1:A:40:ASN:HB3	2.00	0.43
1:C:79:VAL:HG21	1:C:183:LYS:HD2	1.99	0.43
1:E:254:TYR:CZ	1:E:258:ILE:HD11	2.53	0.43
1:A:81:VAL:O	1:E:26[B]:GLU:OE1	2.37	0.42
1:E:79:VAL:HG21	1:E:183:LYS:HD2	2.00	0.42
1:B:79:VAL:HG21	1:B:183:LYS:HD2	2.00	0.42
1:E:78:PHE:HE2	1:E:85:ARG:HD3	1.84	0.42
1:B:304:LEU:HD23	1:B:308:ILE:HD11	2.01	0.42
1:E:304:LEU:HD23	1:E:308:ILE:HD11	2.01	0.42
1:C:105:ARG:NH1	2:D:401:ACT:OXT	2.47	0.42
1:C:78:PHE:HE2	1:C:85:ARG:HD3	1.83	0.42
1:D:304:LEU:HD23	1:D:308:ILE:HD11	2.01	0.42
1:D:135:VAL:HG23	1:D:138:ARG:H	1.85	0.42
1:B:78:PHE:HE2	1:B:85:ARG:HD3	1.84	0.42
1:E:135:VAL:HG23	1:E:138:ARG:H	1.84	0.42
1:D:79:VAL:HG21	1:D:183:LYS:HD2	2.02	0.42
1:A:304:LEU:HD23	1:A:308:ILE:HD11	2.02	0.42
1:D:254:TYR:CZ	1:D:258:ILE:HD11	2.54	0.42
1:E:131:ILE:HD11	1:E:181:GLU:HG2	2.02	0.41
1:B:26[B]:GLU:HB2	1:B:40:ASN:HB3	2.02	0.41
1:A:78:PHE:HE2	1:A:85:ARG:HD3	1.83	0.41
1:C:304:LEU:HD23	1:C:308:ILE:HD11	2.02	0.41
1:E:62:ARG:HD2	1:E:63:VAL:HG23	2.02	0.41
1:B:26[B]:GLU:OE2	1:C:81:VAL:O	2.39	0.41
1:B:254:TYR:CZ	1:B:258:ILE:HD11	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:121:PHE:CE2	3:B:402:PLC:H1A2	2.56	0.41
1:E:120:PRO:HD3	1:E:255:THR:OG1	2.21	0.41
1:B:69:GLU:H	1:B:69:GLU:CD	2.24	0.41
1:B:133:ARG:NH1	1:B:179:ARG:HB2	2.35	0.41
1:C:135:VAL:HG23	1:C:138:ARG:H	1.84	0.40
6:A:408:LMT:H81	6:E:408:LMT:H92	2.03	0.40
1:E:122:ASP:OD1	1:E:192:ARG:HD2	2.22	0.40
1:D:130:LEU:HA	1:D:130:LEU:HD23	1.93	0.40
1:C:118:ARG:HH12	3:C:402:PLC:H72	1.87	0.40
1:A:133:ARG:CZ	1:A:179:ARG:HB2	2.52	0.40
1:D:69:GLU:CD	1:D:69:GLU:H	2.24	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	311/320 (97%)	305 (98%)	6 (2%)	0	100	100
1	B	310/320 (97%)	303 (98%)	7 (2%)	0	100	100
1	C	310/320 (97%)	302 (97%)	8 (3%)	0	100	100
1	D	313/320 (98%)	305 (97%)	8 (3%)	0	100	100
1	E	311/320 (97%)	304 (98%)	7 (2%)	0	100	100
All	All	1555/1600 (97%)	1519 (98%)	36 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar

resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	282/284 (99%)	272 (96%)	10 (4%)	43	80
1	B	281/284 (99%)	270 (96%)	11 (4%)	39	77
1	C	281/284 (99%)	272 (97%)	9 (3%)	46	82
1	D	284/284 (100%)	275 (97%)	9 (3%)	46	82
1	E	282/284 (99%)	273 (97%)	9 (3%)	46	82
All	All	1410/1420 (99%)	1362 (97%)	48 (3%)	44	81

All (48) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	48	LYS
1	A	62	ARG
1	A	69	GLU
1	A	111	LEU
1	A	137	THR
1	A	138	ARG
1	A	170	LYS
1	A	280	LYS
1	A	287	ARG
1	A	304	LEU
1	B	14	GLU
1	B	62	ARG
1	B	69	GLU
1	B	109	ARG
1	B	111	LEU
1	B	136	ASP
1	B	170	LYS
1	B	181	GLU
1	B	280	LYS
1	B	287	ARG
1	B	304	LEU
1	C	62	ARG
1	C	69	GLU
1	C	111	LEU
1	C	137	THR
1	C	170	LYS
1	C	181	GLU

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Mol	Chain	Res	Type
1	C	280	LYS
1	C	287	ARG
1	C	304	LEU
1	D	50	ARG
1	D	69	GLU
1	D	111	LEU
1	D	137	THR
1	D	170	LYS
1	D	181	GLU
1	D	280	LYS
1	D	287	ARG
1	D	304	LEU
1	E	14	GLU
1	E	58	ARG
1	E	69	GLU
1	E	111	LEU
1	E	137	THR
1	E	170	LYS
1	E	280	LYS
1	E	287	ARG
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 ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry

Of 52 ligands modelled in this entry, 10 are unknown and 11 are monoatomic - leaving 31 for Mogul analysis.

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	ACT	A	401	-	1,3,3	5.23	1 (100%)	0,3,3	0.00	-
3	PLC	A	402	-	33,33,41	1.34	5 (15%)	37,41,49	1.61	4 (10%)
3	PLC	A	403	-	11,11,41	0.53	0	10,10,49	0.44	0
2	ACT	A	407	-	1,3,3	6.12	1 (100%)	0,3,3	0.00	-
6	LMT	A	408	-	11,11,36	0.39	0	10,10,47	0.60	0
6	LMT	A	409	-	11,11,36	0.49	0	10,10,47	0.65	0
8	SO4	A	411	-	4,4,4	0.14	0	6,6,6	0.21	0
2	ACT	B	401	-	1,3,3	4.42	1 (100%)	0,3,3	0.00	-
3	PLC	B	402	-	33,33,41	1.25	6 (18%)	37,41,49	1.52	4 (10%)
3	PLC	B	403	-	11,11,41	0.49	0	10,10,49	0.49	0
2	ACT	B	407	-	1,3,3	3.77	1 (100%)	0,3,3	0.00	-
6	LMT	B	408	-	11,11,36	0.36	0	10,10,47	0.71	0
8	SO4	B	410	-	4,4,4	0.20	0	6,6,6	0.11	0
2	ACT	C	401	-	1,3,3	4.32	1 (100%)	0,3,3	0.00	-
3	PLC	C	402	-	33,33,41	1.23	5 (15%)	37,41,49	1.51	5 (13%)
3	PLC	C	403	-	11,11,41	0.61	0	10,10,49	0.42	0
2	ACT	C	407	-	1,3,3	3.66	1 (100%)	0,3,3	0.00	-
6	LMT	C	408	-	11,11,36	0.51	0	10,10,47	0.53	0
8	SO4	C	411	-	4,4,4	0.17	0	6,6,6	0.20	0
2	ACT	D	401	-	1,3,3	4.78	1 (100%)	0,3,3	0.00	-
3	PLC	D	402	-	33,33,41	1.26	4 (12%)	37,41,49	1.58	4 (10%)
3	PLC	D	403	-	11,11,41	0.56	0	10,10,49	0.46	0
2	ACT	D	407	-	1,3,3	4.40	1 (100%)	0,3,3	0.00	-
6	LMT	D	408	-	11,11,36	0.53	0	10,10,47	0.68	0
8	SO4	D	410	-	4,4,4	0.23	0	6,6,6	0.11	0
2	ACT	E	401	-	1,3,3	4.51	1 (100%)	0,3,3	0.00	-
3	PLC	E	402	-	33,33,41	1.17	3 (9%)	37,41,49	1.48	4 (10%)
3	PLC	E	403	-	11,11,41	0.58	0	10,10,49	0.49	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	ACT	E	407	-	1,3,3	4.55	1 (100%)	0,3,3	0.00	-
6	LMT	E	408	-	11,11,36	0.31	0	10,10,47	0.70	0
8	SO4	E	410	-	4,4,4	0.13	0	6,6,6	0.10	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	ACT	A	401	-	-	0/0/0/0	0/0/0/0
3	PLC	A	402	-	-	0/37/37/45	0/0/0/0
3	PLC	A	403	-	-	0/9/9/45	0/0/0/0
2	ACT	A	407	-	-	0/0/0/0	0/0/0/0
6	LMT	A	408	-	-	0/9/9/61	0/0/0/2
6	LMT	A	409	-	-	0/9/9/61	0/0/0/2
8	SO4	A	411	-	-	0/0/0/0	0/0/0/0
2	ACT	B	401	-	-	0/0/0/0	0/0/0/0
3	PLC	B	402	-	-	0/37/37/45	0/0/0/0
3	PLC	B	403	-	-	0/9/9/45	0/0/0/0
2	ACT	B	407	-	-	0/0/0/0	0/0/0/0
6	LMT	B	408	-	-	0/9/9/61	0/0/0/2
8	SO4	B	410	-	-	0/0/0/0	0/0/0/0
2	ACT	C	401	-	-	0/0/0/0	0/0/0/0
3	PLC	C	402	-	-	0/37/37/45	0/0/0/0
3	PLC	C	403	-	-	0/9/9/45	0/0/0/0
2	ACT	C	407	-	-	0/0/0/0	0/0/0/0
6	LMT	C	408	-	-	0/9/9/61	0/0/0/2
8	SO4	C	411	-	-	0/0/0/0	0/0/0/0
2	ACT	D	401	-	-	0/0/0/0	0/0/0/0
3	PLC	D	402	-	-	0/37/37/45	0/0/0/0
3	PLC	D	403	-	-	0/9/9/45	0/0/0/0
2	ACT	D	407	-	-	0/0/0/0	0/0/0/0
6	LMT	D	408	-	-	0/9/9/61	0/0/0/2
8	SO4	D	410	-	-	0/0/0/0	0/0/0/0
2	ACT	E	401	-	-	0/0/0/0	0/0/0/0
3	PLC	E	402	-	-	0/37/37/45	0/0/0/0
3	PLC	E	403	-	-	0/9/9/45	0/0/0/0
2	ACT	E	407	-	-	0/0/0/0	0/0/0/0
6	LMT	E	408	-	-	0/9/9/61	0/0/0/2
8	SO4	E	410	-	-	0/0/0/0	0/0/0/0

All (33) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	402	PLC	C5-C4	2.02	1.58	1.51
3	A	402	PLC	P-O1P	2.07	1.58	1.51
3	D	402	PLC	C3-C2	2.08	1.56	1.50
3	B	402	PLC	O3-CB	2.09	1.39	1.33
3	E	402	PLC	P-O1P	2.10	1.58	1.51
3	D	402	PLC	P-O1P	2.10	1.58	1.51
3	C	402	PLC	P-O1P	2.12	1.58	1.51
3	B	402	PLC	C1-C2	2.12	1.56	1.50
3	B	402	PLC	P-O1P	2.20	1.59	1.51
3	A	402	PLC	C1-C2	2.20	1.56	1.50
3	C	402	PLC	O3-CB	2.21	1.40	1.33
3	E	402	PLC	C3-C2	2.27	1.57	1.50
3	D	402	PLC	O3-CB	2.29	1.40	1.33
3	B	402	PLC	C3-C2	2.29	1.57	1.50
3	A	402	PLC	O3-CB	2.33	1.40	1.33
3	C	402	PLC	C3-C2	2.42	1.57	1.50
3	C	402	PLC	C1-C2	2.42	1.57	1.50
3	E	402	PLC	O2-C'	2.98	1.43	1.34
3	A	402	PLC	C3-C2	3.00	1.59	1.50
3	B	402	PLC	O2-C'	3.22	1.43	1.34
3	C	402	PLC	O2-C'	3.24	1.44	1.34
3	A	402	PLC	O2-C'	3.60	1.45	1.34
2	C	407	ACT	CH3-C	3.66	1.53	1.48
3	D	402	PLC	O2-C'	3.67	1.45	1.34
2	B	407	ACT	CH3-C	3.77	1.54	1.48
2	C	401	ACT	CH3-C	4.32	1.54	1.48
2	D	407	ACT	CH3-C	4.40	1.54	1.48
2	B	401	ACT	CH3-C	4.42	1.54	1.48
2	E	401	ACT	CH3-C	4.51	1.55	1.48
2	E	407	ACT	CH3-C	4.55	1.55	1.48
2	D	401	ACT	CH3-C	4.78	1.55	1.48
2	A	401	ACT	CH3-C	5.23	1.56	1.48
2	A	407	ACT	CH3-C	6.12	1.57	1.48

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	402	PLC	O2-C'-O'	-4.03	112.85	123.67
3	B	402	PLC	O2-C'-O'	-3.95	113.08	123.67
3	E	402	PLC	O2-C'-O'	-3.83	113.39	123.67
3	D	402	PLC	O2-C'-O'	-3.69	113.75	123.67
3	C	402	PLC	O2-C'-O'	-3.51	114.24	123.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	402	PLC	O4P-P-O1P	-2.96	98.11	109.62
3	C	402	PLC	O4P-P-O1P	-2.93	98.23	109.62
3	D	402	PLC	O4P-P-O1P	-2.88	98.45	109.62
3	E	402	PLC	O4P-P-O1P	-2.86	98.51	109.62
3	B	402	PLC	O4P-P-O1P	-2.82	98.68	109.62
3	C	402	PLC	O2P-P-O3P	2.05	118.80	108.46
3	E	402	PLC	O2-C'-C1'	4.03	120.28	111.53
3	D	402	PLC	O2-C'-C1'	4.24	120.74	111.53
3	C	402	PLC	O2-C'-C1'	4.24	120.74	111.53
3	B	402	PLC	O2-C'-C1'	4.35	120.98	111.53
3	A	402	PLC	O2-C'-C1'	4.35	120.98	111.53
3	E	402	PLC	C2-O2-C'	4.53	128.77	117.89
3	B	402	PLC	C2-O2-C'	4.65	129.04	117.89
3	C	402	PLC	C2-O2-C'	4.68	129.12	117.89
3	A	402	PLC	C2-O2-C'	5.43	130.92	117.89
3	D	402	PLC	C2-O2-C'	5.53	131.15	117.89

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

15 monomers are involved in 17 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	401	ACT	1	0
3	A	402	PLC	2	0
6	A	408	LMT	1	0
3	B	402	PLC	3	0
3	B	403	PLC	1	0
3	C	402	PLC	3	0
3	C	403	PLC	1	0
6	C	408	LMT	1	0
2	D	401	ACT	2	0
3	D	402	PLC	1	0
3	D	403	PLC	1	0
6	D	408	LMT	2	0
3	E	402	PLC	1	0
3	E	403	PLC	1	0
6	E	408	LMT	1	0

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

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	311/320 (97%)	-0.18	5 (1%) 74 47	48, 64, 94, 129	0
1	B	311/320 (97%)	-0.13	7 (2%) 64 33	48, 64, 92, 111	0
1	C	311/320 (97%)	-0.11	10 (3%) 51 23	43, 66, 95, 135	0
1	D	311/320 (97%)	0.02	10 (3%) 51 23	44, 65, 94, 129	0
1	E	311/320 (97%)	-0.07	6 (1%) 70 41	42, 66, 93, 126	0
All	All	1555/1600 (97%)	-0.09	38 (2%) 62 32	42, 65, 95, 135	0

All (38) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	58	ARG	6.8
1	D	57	VAL	5.6
1	C	57	VAL	5.3
1	C	56	PRO	4.9
1	B	284	GLN	4.9
1	E	58	ARG	4.4
1	D	59	SER	4.1
1	D	61	VAL	3.6
1	C	59	SER	3.5
1	C	283	SER	3.4
1	E	283	SER	3.2
1	E	284	GLN	3.1
1	E	57	VAL	3.0
1	D	54	PHE	3.0
1	D	55	ASP	3.0
1	D	154	ASP	2.9
1	C	312	PHE	2.9
1	A	59	SER	2.8
1	D	58	ARG	2.6
1	B	283	SER	2.6

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Mol	Chain	Res	Type	RSRZ
1	D	93	SER	2.6
1	E	56	PRO	2.6
1	B	154	ASP	2.5
1	B	11	ILE	2.4
1	C	60	GLY	2.4
1	B	293	ARG	2.4
1	E	226	THR	2.3
1	A	312	PHE	2.3
1	B	312	PHE	2.3
1	A	11	ILE	2.2
1	C	286	ALA	2.2
1	D	56	PRO	2.2
1	A	146	LEU	2.2
1	D	226	THR	2.1
1	C	94	VAL	2.1
1	C	55	ASP	2.1
1	B	178	ASP	2.0
1	A	52	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 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
2	ACT	C	407	4/4	0.67	0.66	42.10	105,105,105,110	0
4	UNL	C	405	12/-	0.78	0.41	28.38	89,94,96,99	0
2	ACT	A	407	4/4	0.61	0.64	16.60	102,105,107,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
2	ACT	D	407	4/4	0.62	0.78	14.99	125,126,127,129	0
7	NA	B	409	1/1	0.73	0.43	13.42	97,97,97,97	0
4	UNL	D	405	12/-	0.76	0.43	11.82	85,89,95,99	0
8	SO4	D	410	5/5	0.72	0.39	9.83	154,156,156,156	0
2	ACT	B	407	4/4	0.69	0.39	9.72	96,97,97,101	0
4	UNL	E	405	12/-	0.80	0.39	9.61	72,85,102,105	0
8	SO4	A	411	5/5	0.74	0.38	8.65	159,160,161,161	0
8	SO4	E	410	5/5	0.75	0.35	8.40	157,158,158,158	0
4	UNL	B	405	12/-	0.75	0.45	8.13	92,92,97,100	0
8	SO4	C	411	5/5	0.68	0.38	7.82	162,163,163,163	0
4	UNL	A	405	12/-	0.84	0.35	6.69	84,87,93,100	0
8	SO4	B	410	5/5	0.72	0.31	6.68	154,155,155,156	0
6	LMT	C	408	12/35	0.89	0.28	6.47	45,57,61,62	0
6	LMT	B	408	12/35	0.89	0.28	5.79	54,58,71,72	0
3	PLC	B	402	34/42	0.72	0.40	5.36	67,103,139,140	0
3	PLC	D	402	34/42	0.70	0.39	4.96	48,104,143,145	0
7	NA	E	409	1/1	0.83	0.38	4.79	79,79,79,79	0
2	ACT	E	407	4/4	0.83	0.30	4.62	82,90,90,91	0
3	PLC	E	402	34/42	0.75	0.32	4.51	73,110,143,144	0
3	PLC	C	402	34/42	0.75	0.30	4.41	74,105,141,142	0
3	PLC	A	402	34/42	0.75	0.30	3.92	64,108,144,145	0
6	LMT	A	409	12/35	0.88	0.31	3.74	50,56,72,73	0
6	LMT	E	408	12/35	0.91	0.31	3.44	56,60,73,75	0
6	LMT	D	408	12/35	0.90	0.31	3.34	41,54,70,70	0
2	ACT	C	401	4/4	0.93	0.25	2.79	53,57,57,58	0
2	ACT	E	401	4/4	0.97	0.31	2.23	50,54,55,64	0
7	NA	C	410	1/1	0.85	0.23	1.85	83,83,83,83	0
7	NA	D	409	1/1	0.76	0.27	1.40	87,87,87,87	0
7	NA	A	410	1/1	0.57	0.29	1.19	76,76,76,76	0
2	ACT	D	401	4/4	0.93	0.19	0.74	56,60,61,63	0
5	CL	D	406	1/1	0.94	0.16	-0.29	58,58,58,58	0
2	ACT	A	401	4/4	0.97	0.14	-1.00	44,53,58,59	0
2	ACT	B	401	4/4	0.95	0.14	-1.03	56,59,60,70	0
5	CL	B	406	1/1	0.94	0.13	-1.07	59,59,59,59	0
5	CL	E	406	1/1	0.95	0.12	-3.38	60,60,60,60	0
5	CL	C	406	1/1	0.96	0.09	-3.41	54,54,54,54	0
4	UNL	E	404	12/-	0.67	0.56	-	108,111,119,119	0
4	UNL	A	404	12/-	0.76	0.56	-	89,96,106,110	0
7	NA	C	409	1/1	0.95	1.30	-	83,83,83,83	0
4	UNL	B	404	12/-	0.66	0.48	-	106,109,114,114	0
3	PLC	B	403	12/42	0.81	0.62	-	79,83,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
3	PLC	A	403	12/42	0.71	0.53	-	80,82,85,85	0
4	UNL	D	404	12/-	0.58	0.57	-	93,94,98,100	0
6	LMT	A	408	12/35	0.91	0.28	-	57,61,68,68	0
5	CL	A	406	1/1	0.97	0.13	-	51,51,51,51	0
3	PLC	E	403	12/42	0.78	0.53	-	66,70,79,79	0
4	UNL	C	404	12/-	0.53	0.63	-	98,110,117,120	0
3	PLC	C	403	12/42	0.79	0.53	-	65,67,78,79	0
3	PLC	D	403	12/42	0.80	0.56	-	75,76,86,87	0

6.5 Other polymers [i](#)

There are no such residues in this entry.