



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 03:57 PM UTC

PDB ID : 4K3L / pdb_00004k3l
Title : E. coli sliding clamp in complex with AcLF dipeptide
Authors : Yin, Z.; Oakley, A.J.
Deposited on : 2013-04-10
Resolution : 1.50 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	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

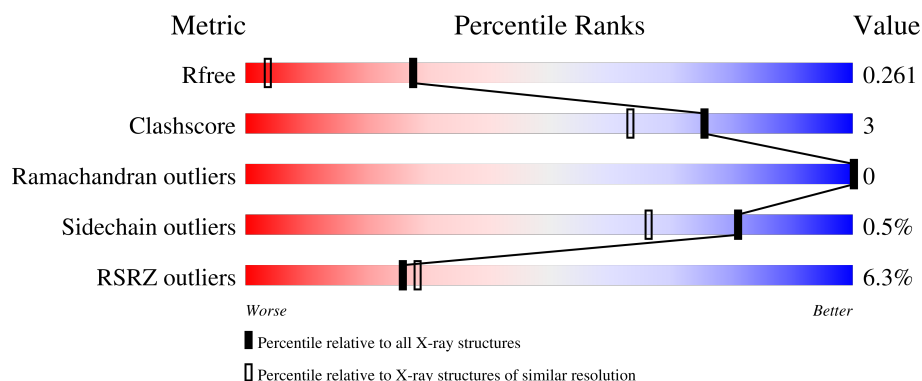
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.50 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}	180053	4037 (1.50-1.50)
Clashscore	190562	4235 (1.50-1.50)
Ramachandran outliers	187476	4153 (1.50-1.50)
Sidechain outliers	187428	4150 (1.50-1.50)
RSRZ outliers	180081	4039 (1.50-1.50)

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	366	7% 89% 7% .
1	B	366	5% 93% 5% .

2 Entry composition [i](#)

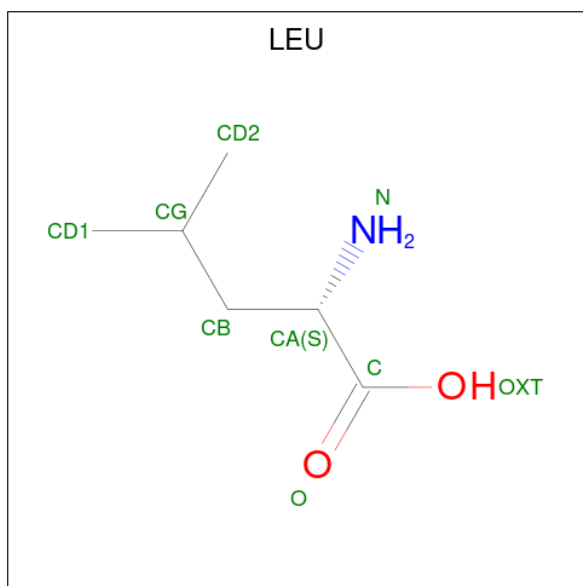
There are 10 unique types of molecules in this entry. The entry contains 6595 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 DNA polymerase III subunit beta.

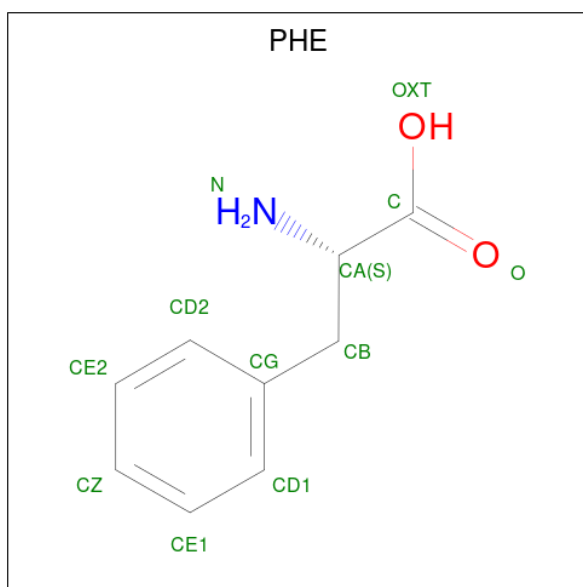
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	353	Total	C	N	O	S	0	22	0
			2844	1803	491	526	24			
1	B	359	Total	C	N	O	S	0	15	0
			2835	1792	485	535	23			

- Molecule 2 is LEUCINE (CCD ID: LEU) (formula: $C_6H_{13}NO_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			8	6	1	1		
2	B	1	Total	C	N	O	0	0
			8	6	1	1		

- Molecule 3 is PHENYLALANINE (CCD ID: PHE) (formula: $C_9H_{11}NO_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			12	9	1	2		
3	B	1	Total	C	N	O	0	0
			12	9	1	2		

- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

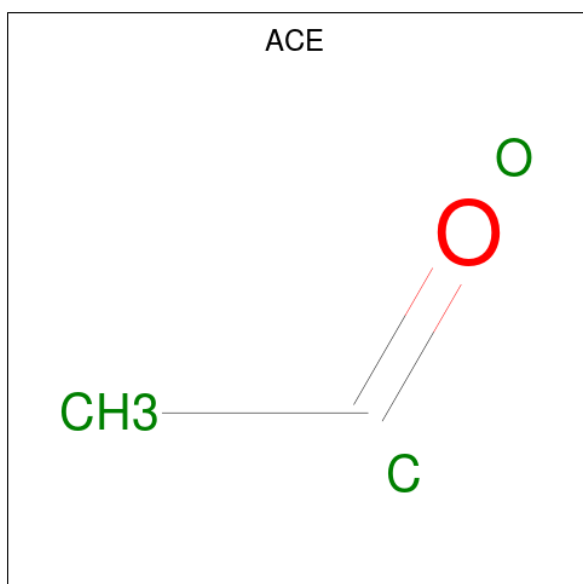
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	4	Total	Ca	0	0
			4	4		
4	B	8	Total	Ca	0	0
			8	8		

- Molecule 5 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: C₄H₁₀O₃).



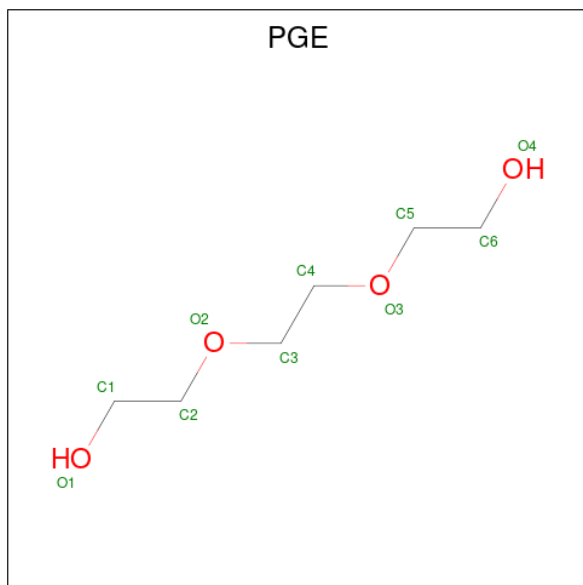
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			7	4	3		
5	A	1	Total	C	O	0	0
			7	4	3		
5	B	1	Total	C	O	0	0
			7	4	3		
5	B	1	Total	C	O	0	0
			7	4	3		
5	B	1	Total	C	O	0	0
			7	4	3		

- Molecule 6 is ACETYL GROUP (CCD ID: ACE) (formula: C_2H_4O).



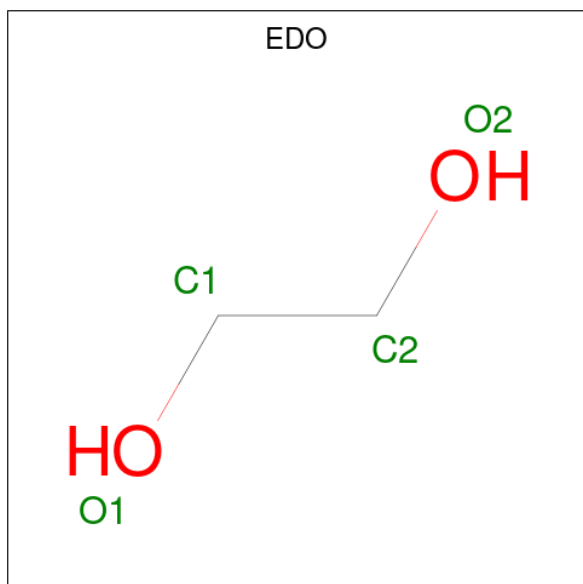
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			3	2	1		
6	B	1	Total	C	O	0	0
			3	2	1		

- Molecule 7 is TRIETHYLENE GLYCOL (CCD ID: PGE) (formula: $C_6H_{14}O_4$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	B	1	Total	C	O	0	0
			10	6	4		

- Molecule 8 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).



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

- Molecule 9 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	B	1	Total	Cl	0	0
			1	1		

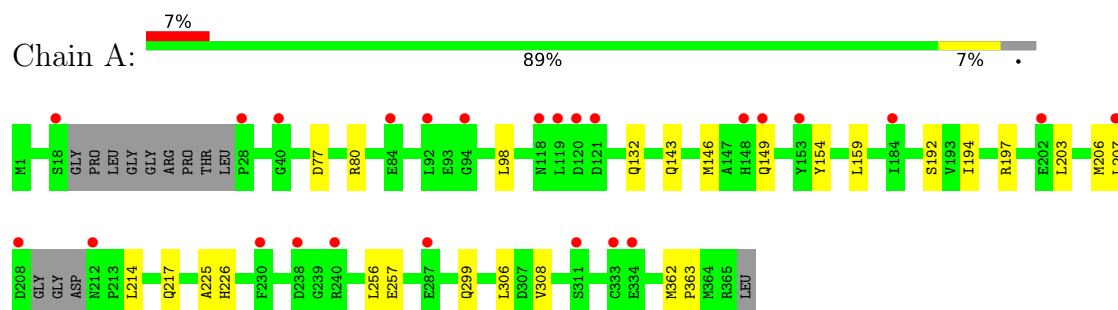
- Molecule 10 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	A	406	Total	O	0	0
			406	406		
10	B	402	Total	O	0	0
			402	402		

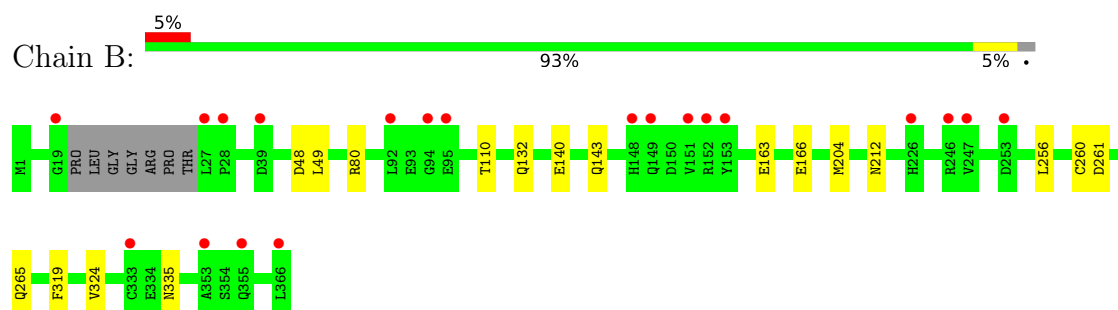
3 Residue-property plots

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: DNA polymerase III subunit beta



- Molecule 1: DNA polymerase III subunit beta



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	79.84Å 67.46Å 81.37Å 90.00° 113.73° 90.00°	Depositor
Resolution (Å)	27.06 – 1.50 27.06 – 1.50	Depositor EDS
% Data completeness (in resolution range)	86.4 (27.06-1.50) 86.4 (27.06-1.50)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.73 (at 1.50Å)	Xtriage
Refinement program	REFMAC 5.7.0029	Depositor
R, R_{free}	0.217 , 0.255 0.225 , 0.261	Depositor DCC
R_{free} test set	5422 reflections (4.28%)	wwPDB-VP
Wilson B-factor (Å ²)	15.4	Xtriage
Anisotropy	0.122	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 39.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.35$	Xtriage
Estimated twinning fraction	0.008 for l,-k,h	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	6595	wwPDB-VP
Average B, all atoms (Å ²)	19.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.67% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: PGE, EDO, CA, CL, PEG, ACE

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	0.42	0/2960	0.62	0/4002
1	B	0.43	0/2925	0.63	0/3960
All	All	0.42	0/5885	0.63	0/7962

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	2844	0	2893	17	0
1	B	2835	0	2861	17	0
2	A	8	0	10	1	0
2	B	8	0	10	0	0
3	A	12	0	9	0	0
3	B	12	0	9	0	0
4	A	4	0	0	0	0
4	B	8	0	0	0	0
5	A	14	0	20	0	0
5	B	21	0	30	0	0
6	A	3	0	3	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	B	3	0	3	0	0
7	B	10	0	14	3	0
8	B	4	0	6	0	0
9	B	1	0	0	1	0
10	A	406	0	0	1	0
10	B	402	0	0	2	0
All	All	6595	0	5868	35	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 3.

All (35) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:110:THR:O	9:B:416:CL:CL	2.37	0.79
1:B:140:GLU:HG3	1:B:204[A]:MET:HE2	1.75	0.66
1:B:132:GLN:HE22	7:B:409:PGE:C3	2.10	0.65
1:A:214:LEU:HD11	1:A:225:ALA:HB1	1.81	0.63
1:A:146[B]:MET:HE1	10:A:845:HOH:O	1.99	0.62
1:A:362[B]:MET:HE2	1:A:363:PRO:HD2	1.81	0.61
1:B:140:GLU:CG	1:B:204[A]:MET:HE2	2.34	0.57
1:B:140:GLU:HG3	1:B:204[A]:MET:CE	2.33	0.57
1:B:80:ARG:NH1	10:B:812:HOH:O	2.38	0.56
1:B:143:GLN:HE22	1:B:204[B]:MET:CE	2.20	0.54
1:A:217:GLN:OE1	1:A:226[A]:HIS:HE1	1.91	0.53
1:B:143:GLN:NE2	1:B:204[B]:MET:SD	2.82	0.53
1:A:77:ASP:OD1	1:A:80[A]:ARG:NH1	2.42	0.53
1:B:143:GLN:HE22	1:B:204[B]:MET:HE1	1.75	0.52
1:A:362[B]:MET:HE2	1:A:362[B]:MET:HA	1.92	0.52
1:B:212:ASN:HB2	7:B:409:PGE:H3	1.93	0.51
1:B:319:PHE:CE1	1:B:324:VAL:HG21	2.47	0.49
1:A:362[B]:MET:HE2	1:A:363:PRO:CD	2.42	0.49
7:B:409:PGE:H52	10:B:805:HOH:O	2.11	0.49
1:B:260[A]:CYS:SG	1:B:335:ASN:C	2.97	0.48
1:A:362[B]:MET:HE3	2:A:401:LEU:HD23	1.95	0.47
1:A:132:GLN:HE21	1:A:207:LEU:HA	1.81	0.45
1:A:256:LEU:C	1:A:257[B]:GLU:OE2	2.60	0.45
1:A:159:LEU:HD11	1:A:192[B]:SER:HB3	2.00	0.44
1:A:256:LEU:C	1:A:256:LEU:HD23	2.44	0.43
1:B:261:ASP:O	1:B:265:GLN:HG2	2.18	0.42
1:B:163:GLU:O	1:B:166:GLU:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:154:TYR:HB2	1:A:194:ILE:HD13	2.02	0.42
1:A:146[A]:MET:HE1	1:A:197[A]:ARG:HA	2.02	0.41
1:A:203:LEU:O	1:A:206:MET:HG2	2.21	0.41
1:A:306[B]:LEU:HD23	1:A:308:VAL:CG1	2.51	0.41
1:A:143:GLN:HG3	1:A:146[B]:MET:HE2	2.02	0.41
1:B:48:ASP:O	1:B:49:LEU:HB2	2.22	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	369/366 (101%)	365 (99%)	4 (1%)	0	100	100
1	B	370/366 (101%)	365 (99%)	5 (1%)	0	100	100
All	All	739/732 (101%)	730 (99%)	9 (1%)	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	318/313 (102%)	315 (99%)	3 (1%)	70	49
1	B	314/313 (100%)	314 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	632/626 (101%)	629 (100%)	3 (0%)	81	66

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	98	LEU
1	A	149	GLN
1	A	299	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	132	GLN
1	A	222	ASN
1	A	295	ASN
1	B	61	GLN
1	B	123	GLN
1	B	132	GLN
1	B	143	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 26 ligands modelled in this entry, 13 are monoatomic - leaving 13 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
3	PHE	B	402	2	11,12,12	0.68	1 (9%)	11,15,15	0.81	1 (9%)
5	PEG	A	405	-	6,6,6	0.45	0	5,5,5	0.24	0
5	PEG	B	408	-	6,6,6	0.45	0	5,5,5	0.23	0
8	EDO	B	414	-	3,3,3	0.31	0	2,2,2	0.52	0
3	PHE	A	402	2	11,12,12	0.70	1 (9%)	11,15,15	0.92	1 (9%)
5	PEG	A	406	-	6,6,6	0.41	0	5,5,5	0.32	0
7	PGE	B	409	-	9,9,9	0.40	0	8,8,8	0.76	0
5	PEG	B	410	-	6,6,6	0.42	0	5,5,5	0.28	0
5	PEG	B	407	-	6,6,6	0.45	0	5,5,5	0.25	0
2	LEU	B	401	6,3	5,7,8	0.65	0	6,8,10	0.58	0
6	ACE	B	400	2	1,2,2	0.88	0	0,1,1	-	-
6	ACE	A	400	2	1,2,2	0.78	0	0,1,1	-	-
2	LEU	A	401	6,3	5,7,8	0.64	0	6,8,10	0.66	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
3	PHE	B	402	2	-	0/8/8/8	0/1/1/1
5	PEG	A	405	-	-	1/4/4/4	-
5	PEG	B	408	-	-	1/4/4/4	-
8	EDO	B	414	-	-	0/1/1/1	-
3	PHE	A	402	2	-	0/8/8/8	0/1/1/1
5	PEG	A	406	-	-	3/4/4/4	-
7	PGE	B	409	-	-	5/7/7/7	-
5	PEG	B	410	-	-	3/4/4/4	-
5	PEG	B	407	-	-	0/4/4/4	-
2	LEU	B	401	6,3	-	0/5/6/8	-
2	LEU	A	401	6,3	-	0/5/6/8	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	402	PHE	OXT-C	-2.07	1.24	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	402	PHE	OXT-C	-2.04	1.24	1.30

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	402	PHE	OXT-C-O	-2.96	117.36	124.08
3	B	402	PHE	OXT-C-O	-2.59	118.21	124.08

There are no chirality outliers.

All (13) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	B	409	PGE	C4-C3-O2-C2
5	A	406	PEG	O2-C3-C4-O4
5	B	410	PEG	O2-C3-C4-O4
5	A	406	PEG	O1-C1-C2-O2
5	A	406	PEG	C1-C2-O2-C3
5	A	405	PEG	C4-C3-O2-C2
7	B	409	PGE	C3-C4-O3-C5
7	B	409	PGE	C6-C5-O3-C4
5	B	408	PEG	C1-C2-O2-C3
5	B	410	PEG	C4-C3-O2-C2
5	B	410	PEG	O1-C1-C2-O2
7	B	409	PGE	O2-C3-C4-O3
7	B	409	PGE	O3-C5-C6-O4

There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	B	409	PGE	3	0
2	A	401	LEU	1	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2		OWAB(Å ²)	Q < 0.9
1	A	353/366 (96%)	0.75	25 (7%)	22 24	9, 16, 26, 39	23 (6%)
1	B	359/366 (98%)	0.67	20 (5%)	30 33	8, 15, 26, 32	22 (6%)
All	All	712/732 (97%)	0.71	45 (6%)	26 28	8, 16, 26, 39	45 (6%)

All (45) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	333[A]	CYS	6.0
1	B	353	ALA	5.8
1	A	333[A]	CYS	5.7
1	B	151[A]	VAL	5.6
1	B	366	LEU	5.1
1	B	27	LEU	4.6
1	A	94	GLY	4.2
1	A	207	LEU	3.7
1	B	19	GLY	3.7
1	A	208	ASP	3.6
1	B	94	GLY	3.4
1	B	92	LEU	3.2
1	A	121	ASP	3.2
1	B	149	GLN	3.1
1	A	119	LEU	2.9
1	A	28	PRO	2.9
1	A	84	GLU	2.9
1	A	202	GLU	2.8
1	A	311	SER	2.8
1	A	230	PHE	2.8
1	A	92	LEU	2.8
1	A	40	GLY	2.8
1	A	334	GLU	2.7
1	B	148	HIS	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	120	ASP	2.6
1	A	238	ASP	2.6
1	B	152	ARG	2.6
1	A	153	TYR	2.5
1	A	212	ASN	2.5
1	B	153	TYR	2.5
1	B	95	GLU	2.5
1	A	148[A]	HIS	2.5
1	A	287	GLU	2.4
1	A	18	SER	2.3
1	B	39[A]	ASP	2.3
1	A	118	ASN	2.3
1	A	184	ILE	2.2
1	A	149	GLN	2.2
1	B	355	GLN	2.1
1	B	253	ASP	2.1
1	B	247	VAL	2.0
1	B	226	HIS	2.0
1	B	246	ARG	2.0
1	A	240	ARG	2.0
1	B	28	PRO	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 oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
5	PEG	B	408	7/7	0.67	0.20	46,46,47,47	0
5	PEG	B	410	7/7	0.69	0.20	44,44,45,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
7	PGE	B	409	10/10	0.69	0.18	22,25,25,26	0
4	CA	A	407	1/1	0.71	0.18	57,57,57,57	0
5	PEG	A	405	7/7	0.78	0.18	33,36,38,38	0
4	CA	B	405	1/1	0.82	0.19	54,54,54,54	0
5	PEG	A	406	7/7	0.84	0.13	30,32,34,34	0
2	LEU	B	401	8/9	0.85	0.11	21,22,22,22	0
3	PHE	B	402	12/12	0.85	0.11	22,23,29,29	0
6	ACE	B	400	3/3	0.85	0.15	23,23,23,23	0
5	PEG	B	407	7/7	0.85	0.14	31,31,32,33	0
8	EDO	B	414	4/4	0.85	0.18	25,25,26,27	0
4	CA	A	408	1/1	0.87	0.25	41,41,41,41	0
4	CA	A	404	1/1	0.87	0.12	45,45,45,45	0
6	ACE	A	400	3/3	0.92	0.10	18,18,18,18	0
2	LEU	A	401	8/9	0.92	0.10	16,17,17,18	0
9	CL	B	416	1/1	0.92	0.23	24,24,24,24	0
4	CA	A	403	1/1	0.93	0.12	29,29,29,29	0
4	CA	B	406	1/1	0.93	0.09	27,27,27,27	0
3	PHE	A	402	12/12	0.93	0.08	15,16,20,21	0
4	CA	B	413	1/1	0.94	0.30	43,43,43,43	0
4	CA	B	404	1/1	0.95	0.24	32,32,32,32	0
4	CA	B	412	1/1	0.96	0.16	32,32,32,32	0
4	CA	B	411	1/1	0.97	0.17	31,31,31,31	0
4	CA	B	417	1/1	0.97	0.28	33,33,33,33	0
4	CA	B	403	1/1	0.99	0.08	15,15,15,15	0

6.5 Other polymers [i](#)

There are no such residues in this entry.