



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 17, 2026 – 10:30 PM UTC

PDB ID : 4EUV / pdb_00004euv
Title : Crystal Structure of PelD 158-CT from *Pseudomonas aeruginosa* PAO1, in complex with c-di-GMP, form 1
Authors : Li, Z.; Chen, J.; Nair, S.K.
Deposited on : 2012-04-25
Resolution : 2.00 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
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
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

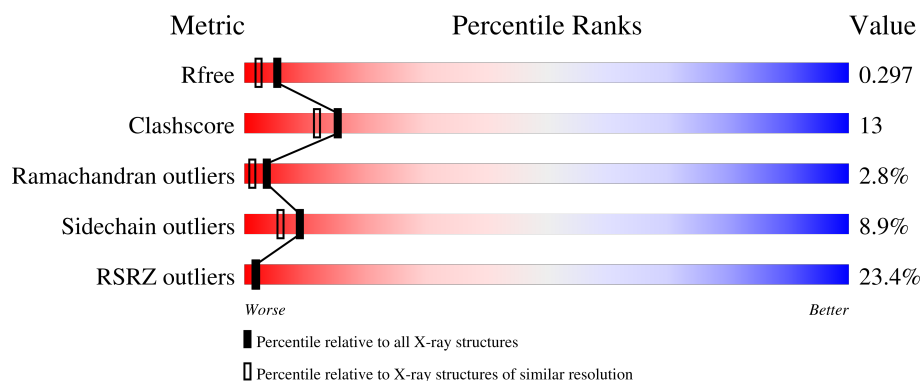
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	297	23% 72% 19% 5%

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 2430 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.

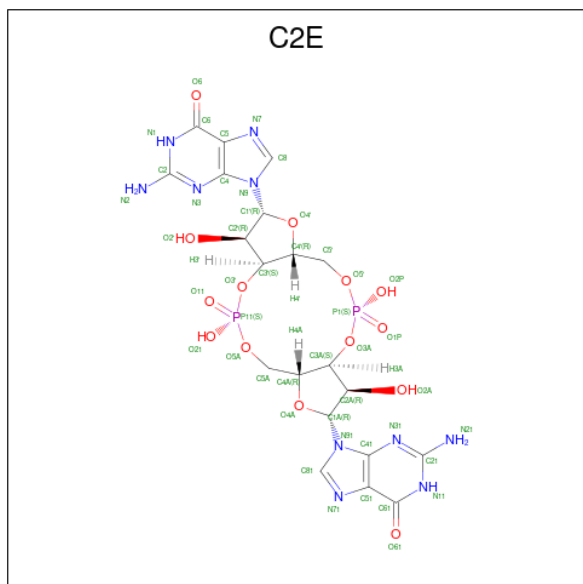
- Molecule 1 is a protein called PelD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	286	Total	C	N	O	S	0	0	0
			2256	1417	411	422	6			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	261	ALA	LEU	conflict	UNP Q9HZE7
A	262	ALA	GLN	conflict	UNP Q9HZE7

- Molecule 2 is 9,9'-[(2R,3R,3aS,5S,7aR,9R,10R,10aS,12S,14aR)-3,5,10,12-tetrahydroxy-5,12-dioxidoctahydro-2H,7H-difuro[3,2-d:3',2'-j][1,3,7,9,2,8]tetraoxadiphosphacyclododecine-2,9-diyl]bis(2-amino-1,9-dihydro-6H-purin-6-one) (CCD ID: C2E) (formula: C₂₀H₂₄N₁₀O₁₄P₂).



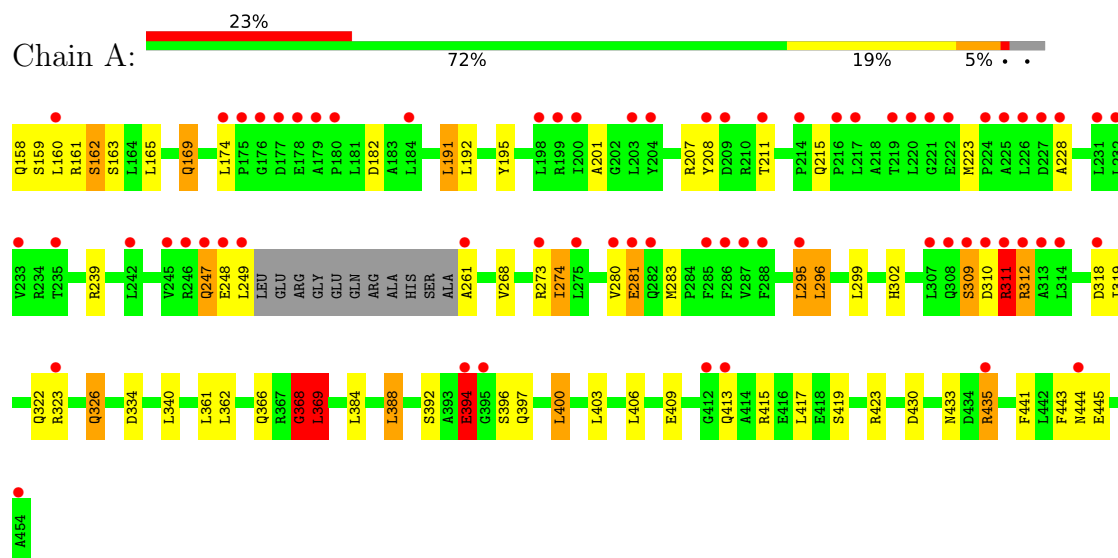
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	128	Total 128	O 128	0	0

3 Residue-property plots [i](#)

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: PelD



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	59.53Å 41.52Å 64.40Å 90.00° 110.95° 90.00°	Depositor
Resolution (Å)	25.00 – 2.00 25.00 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.0 (25.00-2.00) 98.9 (25.00-2.00)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.49 (at 2.00Å)	Xtriage
Refinement program	REFMAC 5.5.0109	Depositor
R, R_{free}	0.221 , 0.281 0.241 , 0.297	Depositor DCC
R_{free} test set	1025 reflections (5.13%)	wwPDB-VP
Wilson B-factor (Å ²)	27.1	Xtriage
Anisotropy	0.060	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 45.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	2430	wwPDB-VP
Average B, all atoms (Å ²)	45.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.31% 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: C2E

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	0.76	1/2285 (0.0%)	1.00	10/3089 (0.3%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	369	LEU	N-CA	6.21	1.54	1.46

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	394	GLU	CA-C-N	-9.55	102.70	121.41
1	A	394	GLU	C-N-CA	-9.55	102.70	121.41
1	A	396	SER	N-CA-C	-6.45	104.29	111.71
1	A	394	GLU	O-C-N	-6.11	115.44	122.89
1	A	368	GLY	CA-C-N	-6.00	110.07	121.54
1	A	368	GLY	C-N-CA	-6.00	110.07	121.54
1	A	413	GLN	N-CA-C	-5.58	105.35	111.82
1	A	215	GLN	CA-C-N	5.53	125.45	119.76
1	A	215	GLN	C-N-CA	5.53	125.45	119.76
1	A	394	GLU	N-CA-C	-5.08	102.76	110.28

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	2256	0	2286	62	0
2	A	46	0	22	0	0
3	A	128	0	0	18	0
All	All	2430	0	2308	62	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 13.

All (62) 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:A:312:ARG:HH11	1:A:312:ARG:HG2	1.16	1.10
1:A:165:LEU:O	1:A:169:GLN:HG2	1.51	1.07
1:A:368:GLY:O	1:A:369:LEU:HB2	1.49	1.03
1:A:158:GLN:HE21	1:A:160:LEU:HD13	1.23	1.02
1:A:392:SER:OG	1:A:394:GLU:HG2	1.63	0.98
1:A:368:GLY:O	1:A:369:LEU:CB	2.08	0.95
1:A:397:GLN:HG2	3:A:693:HOH:O	1.65	0.95
1:A:397:GLN:NE2	3:A:722:HOH:O	2.06	0.86
1:A:302:HIS:HE1	1:A:334:ASP:OD2	1.58	0.84
1:A:312:ARG:HB2	1:A:322:GLN:OE1	1.83	0.79
1:A:195:TYR:HB3	1:A:295:LEU:HD21	1.66	0.78
1:A:322:GLN:O	1:A:326:GLN:HG2	1.83	0.77
1:A:312:ARG:HG2	1:A:312:ARG:NH1	1.90	0.77
1:A:280:VAL:HG11	1:A:283:MET:HE2	1.66	0.76
1:A:302:HIS:CE1	1:A:334:ASP:OD2	2.38	0.76
1:A:362:LEU:HB2	1:A:384:LEU:CD1	2.19	0.72
1:A:323:ARG:HD3	3:A:668:HOH:O	1.90	0.71
1:A:323:ARG:HB3	3:A:668:HOH:O	1.88	0.71
1:A:415:ARG:HG2	1:A:419:SER:OG	1.92	0.68
1:A:362:LEU:CB	1:A:384:LEU:HD13	2.24	0.67
1:A:444:ASN:HB2	3:A:720:HOH:O	1.94	0.66
1:A:362:LEU:HB2	1:A:384:LEU:HD13	1.83	0.60
1:A:435:ARG:HD2	3:A:673:HOH:O	2.01	0.60
1:A:362:LEU:CB	1:A:384:LEU:CD1	2.80	0.59
1:A:312:ARG:HB3	3:A:648:HOH:O	2.02	0.58
1:A:159:SER:HB3	3:A:697:HOH:O	2.03	0.57
1:A:334:ASP:OD2	3:A:685:HOH:O	2.18	0.55
1:A:400:LEU:HD22	3:A:687:HOH:O	2.05	0.55
1:A:443:PHE:O	1:A:444:ASN:HB2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:207:ARG:HG2	1:A:211:THR:O	2.07	0.54
1:A:223:MET:HG2	1:A:281:GLU:OE2	2.08	0.54
1:A:388:LEU:N	1:A:388:LEU:HD23	2.23	0.53
1:A:400:LEU:HD13	3:A:687:HOH:O	2.08	0.53
1:A:409:GLU:HG3	3:A:633:HOH:O	2.08	0.52
1:A:323:ARG:CD	3:A:668:HOH:O	2.53	0.52
1:A:159:SER:HA	1:A:162:SER:OG	2.09	0.52
1:A:165:LEU:O	1:A:169:GLN:CG	2.41	0.50
1:A:201:ALA:O	1:A:223:MET:HG3	2.13	0.49
1:A:366:GLN:HG2	3:A:671:HOH:O	2.12	0.49
1:A:310:ASP:C	1:A:311:ARG:HG2	2.39	0.48
1:A:430:ASP:O	1:A:433:ASN:HB2	2.14	0.47
1:A:362:LEU:HB3	1:A:384:LEU:HD13	1.95	0.47
1:A:423:ARG:NH2	3:A:690:HOH:O	2.39	0.47
1:A:163:SER:HB3	1:A:191:LEU:HD21	1.97	0.46
1:A:192:LEU:HD23	1:A:299:LEU:HD23	1.96	0.46
1:A:268:VAL:HG22	1:A:274:ILE:HD13	1.98	0.46
1:A:295:LEU:HD23	1:A:296:LEU:N	2.30	0.45
1:A:441:PHE:O	1:A:445:GLU:HB2	2.17	0.45
1:A:273:ARG:HH12	1:A:311:ARG:HH11	1.65	0.44
1:A:334:ASP:HB3	1:A:340:LEU:HB2	1.99	0.44
1:A:388:LEU:N	1:A:388:LEU:CD2	2.81	0.43
1:A:319:ILE:O	1:A:323:ARG:HG3	2.18	0.43
1:A:361:LEU:HD11	1:A:406:LEU:HG	2.00	0.42
1:A:309:SER:O	1:A:310:ASP:HB2	2.19	0.42
1:A:158:GLN:HB3	1:A:160:LEU:H	1.83	0.42
1:A:435:ARG:NH1	3:A:673:HOH:O	2.52	0.41
1:A:195:TYR:HD1	1:A:295:LEU:HD11	1.85	0.41
1:A:415:ARG:CG	1:A:419:SER:OG	2.65	0.41
1:A:261:ALA:HB3	3:A:613:HOH:O	2.19	0.41
1:A:161:ARG:HG3	3:A:653:HOH:O	2.19	0.41
1:A:247:GLN:C	1:A:249:LEU:H	2.28	0.40
1:A:326:GLN:HG2	1:A:326:GLN:H	1.54	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	282/297 (95%)	262 (93%)	12 (4%)	8 (3%)	4 1

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	208	TYR
1	A	309	SER
1	A	247	GLN
1	A	311	ARG
1	A	368	GLY
1	A	248	GLU
1	A	369	LEU
1	A	228	ALA

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	237/245 (97%)	216 (91%)	21 (9%)	9 6

All (21) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	162	SER
1	A	169	GLN
1	A	174	LEU

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Mol	Chain	Res	Type
1	A	182	ASP
1	A	191	LEU
1	A	239	ARG
1	A	274	ILE
1	A	281	GLU
1	A	295	LEU
1	A	296	LEU
1	A	311	ARG
1	A	312	ARG
1	A	318	ASP
1	A	326	GLN
1	A	369	LEU
1	A	388	LEU
1	A	394	GLU
1	A	400	LEU
1	A	403	LEU
1	A	417	LEU
1	A	435	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	158	GLN
1	A	302	HIS
1	A	308	GLN
1	A	326	GLN
1	A	397	GLN
1	A	433	ASN
1	A	440	HIS

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 oligosaccharides in this entry.

5.6 Ligand geometry

1 ligand is modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	C2E	A	501	-	52,52,52	1.77	9 (17%)	78,82,82	1.68	12 (15%)

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	C2E	A	501	-	-	0/30/62/62	0/6/7/7

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	501	C2E	O6-C6	6.90	1.36	1.23
2	A	501	C2E	O61-C61	6.70	1.36	1.23
2	A	501	C2E	C5-C4	3.15	1.47	1.38
2	A	501	C2E	C51-C41	3.07	1.47	1.38
2	A	501	C2E	C41-N91	-2.63	1.31	1.38
2	A	501	C2E	C61-N11	-2.29	1.34	1.38
2	A	501	C2E	C51-N71	-2.07	1.34	1.39
2	A	501	C2E	C5-N7	-2.05	1.35	1.39
2	A	501	C2E	C6-N1	-2.04	1.35	1.38

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	501	C2E	C5-C4-N3	-5.21	120.10	128.39
2	A	501	C2E	C51-C41-N31	-4.76	120.81	128.39
2	A	501	C2E	N9-C4-N3	4.59	135.14	125.95
2	A	501	C2E	C21-N31-C41	4.29	119.69	112.30
2	A	501	C2E	C2-N3-C4	3.92	119.06	112.30
2	A	501	C2E	C61-C51-N71	3.85	137.29	130.29
2	A	501	C2E	N91-C41-N31	3.57	133.09	125.95
2	A	501	C2E	O6-C6-C5	-2.91	118.86	126.53
2	A	501	C2E	C6-C5-N7	2.40	134.66	130.29
2	A	501	C2E	C41-C51-N71	-2.24	107.12	110.67
2	A	501	C2E	C61-C51-C41	-2.15	115.59	118.83
2	A	501	C2E	C51-C61-N11	2.12	118.64	113.25

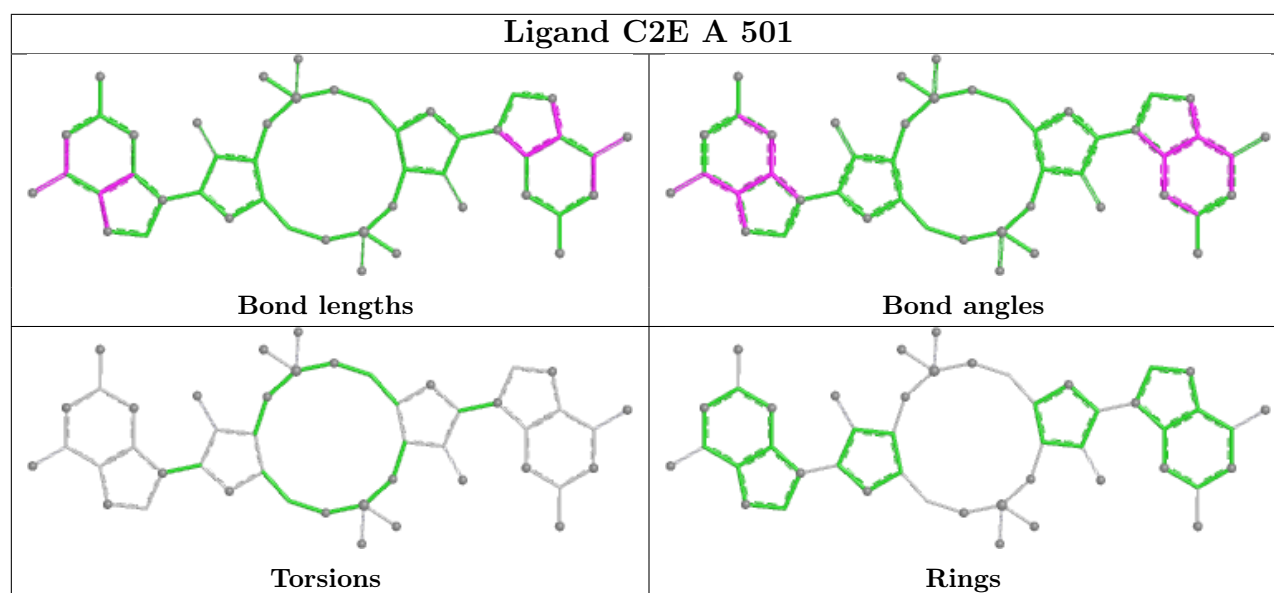
There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



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	286/297 (96%)	1.12	67 (23%) 2 2	15, 41, 93, 112	0

All (67) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	249	LEU	6.0
1	A	313	ALA	5.9
1	A	311	ARG	5.3
1	A	247	GLN	5.3
1	A	208	TYR	4.9
1	A	222	GLU	4.4
1	A	175	PRO	4.4
1	A	221	GLY	4.3
1	A	314	LEU	4.2
1	A	309	SER	4.0
1	A	226	LEU	3.9
1	A	310	ASP	3.9
1	A	228	ALA	3.8
1	A	227	ASP	3.7
1	A	204	TYR	3.6
1	A	286	PHE	3.6
1	A	179	ALA	3.5
1	A	261	ALA	3.5
1	A	220	LEU	3.4
1	A	295	LEU	3.4
1	A	200	ILE	3.4
1	A	412	GLY	3.3
1	A	285	PHE	3.2
1	A	232	LEU	3.1
1	A	231	LEU	3.1
1	A	288	PHE	3.0
1	A	273	ARG	2.9

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Mol	Chain	Res	Type	RSRZ
1	A	224	PRO	2.9
1	A	444	ASN	2.9
1	A	178	GLU	2.9
1	A	312	ARG	2.8
1	A	281	GLU	2.8
1	A	245	VAL	2.8
1	A	246	ARG	2.7
1	A	248	GLU	2.6
1	A	217	LEU	2.6
1	A	413	GLN	2.6
1	A	242	LEU	2.6
1	A	307	LEU	2.6
1	A	180	PRO	2.5
1	A	160	LEU	2.5
1	A	199	ARG	2.5
1	A	435	ARG	2.5
1	A	219	THR	2.5
1	A	214	PRO	2.5
1	A	454	ALA	2.5
1	A	216	PRO	2.4
1	A	177	ASP	2.4
1	A	318	ASP	2.4
1	A	280	VAL	2.4
1	A	184	LEU	2.4
1	A	233	VAL	2.4
1	A	287	VAL	2.4
1	A	176	GLY	2.3
1	A	395	GLY	2.3
1	A	203	LEU	2.3
1	A	211	THR	2.2
1	A	275	LEU	2.2
1	A	235	THR	2.2
1	A	209	ASP	2.2
1	A	394	GLU	2.1
1	A	198	LEU	2.1
1	A	308	GLN	2.1
1	A	323	ARG	2.1
1	A	225	ALA	2.1
1	A	174	LEU	2.0
1	A	282	GLN	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](#)

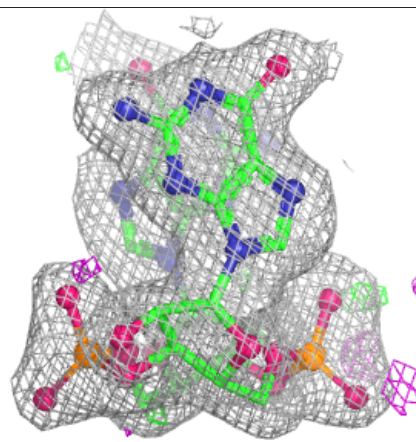
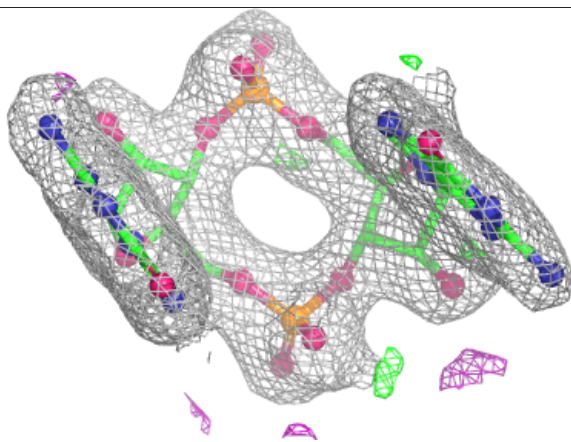
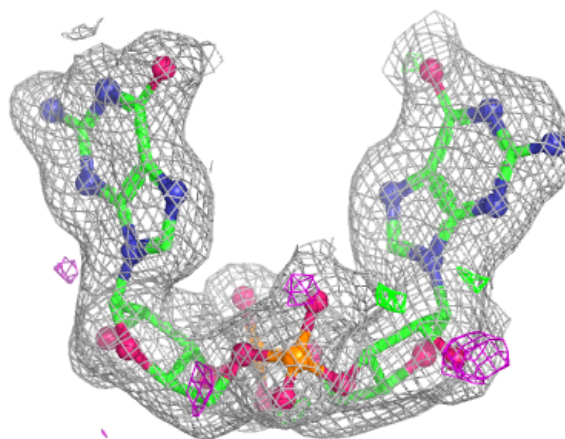
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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
2	C2E	A	501	46/46	0.94	0.07	18,29,34,37	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around C2E A 501:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.