

# wwPDB X-ray Structure Validation Summary Report (i)

May 22, 2020 – 06:04 am BST

PDB ID : 1W25

Title : Response regulator PleD in complex with c-diGMP

Authors: Chan, C.; Schirmer, T.; Jenal, U.

Deposited on : 2004-06-28

Resolution : 2.70 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

MolProbity : 4.02b-467

Mogul : 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.11

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

Refmac: 5.8.0158

CCP4: 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

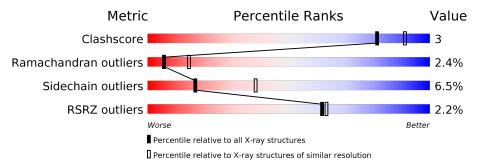
Validation Pipeline (wwPDB-VP) : 2.11

# 1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.70 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
Clashscore	141614	3122 (2.70-2.70)
Ramachandran outliers	138981	3069 (2.70-2.70)
Sidechain outliers	138945	3069 (2.70-2.70)
RSRZ outliers	127900	2737 (2.70-2.70)

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 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 <=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	459	83%	12%		
1	В	459	84%	11%		



# 2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 7210 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 STALKED-CELL DIFFERENTIATION CONTROLLING PROTEIN.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	454	Total 3481	C 2166	N 639	O 661	S 15	164	0	0
1	В	454	Total 3481	C 2166	N 639	O 661	S 15	164	0	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	455	HIS	-	expression tag	UNP Q9A5I5
A	456	HIS	-	expression tag	UNP Q9A5I5
A	457	HIS	-	expression tag	UNP Q9A5I5
A	458	HIS	_	expression tag	UNP Q9A5I5
A	459	HIS	_	expression tag	UNP Q9A5I5
A	460	HIS	_	expression tag	UNP Q9A5I5
В	455	HIS	_	expression tag	UNP Q9A5I5
В	456	HIS	_	expression tag	UNP Q9A5I5
В	457	HIS	_	expression tag	UNP Q9A5I5
В	458	HIS	_	expression tag	UNP Q9A5I5
В	459	HIS	-	expression tag	UNP Q9A5I5
В	460	HIS	_	expression tag	UNP Q9A5I5

• Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

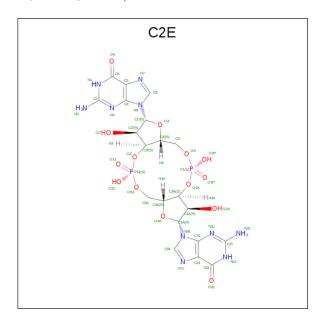
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Zn 1 1	0	0

• Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	В	1	Total Mg 1 1	0	0
3	A	1	Total Mg 1 1	0	0

 $\bullet \ \, \text{Molecule 4 is 9,9'-[(2R,3R,3aS,5S,7aR,9R,10R,10aS,12S,14aR)-3,5,10,12-tetrahydroxy-5,12-dioxidooctahydro-2H,7H-difuro[3,2-d:3',2'-j][1,3,7,9,2,8] tetraoxadiphosphacyclodode cine-2,9-diyl]bis(2-amino-1,9-dihydro-6H-purin-6-one) (three-letter code: C2E) (formula: $C_{20}H_{24}N_{10}O_{14}P_2$).$ 



Mol	Chain	Residues		$\mathbf{At}$	oms			ZeroOcc	AltConf
4	A	1	Total	С	N	О	Р	0	0
4	Α	1	46	20	10	14	2	0	U
4	Λ	1	Total	С	N	О	Р	0	0
4	A	1	46	20	10	14	2	0	U
4	A	1	Total	С	N	О	Р	0	0
4	Λ	1	46	20	10	14	2	0	0
4	В	1	Total	С	N	О	Р	0	0
4	Б	1	46	20	10	14	2	0	0
1	В	1	Total	С	N	О	Р	0	0
4	Б	1	46	20	10	14	2	0	U

• Molecule 5 is water.

Mol	Chain	Residues	${f Atoms}$	ZeroOcc	AltConf
5	A	7	Total O 7 7	0	0



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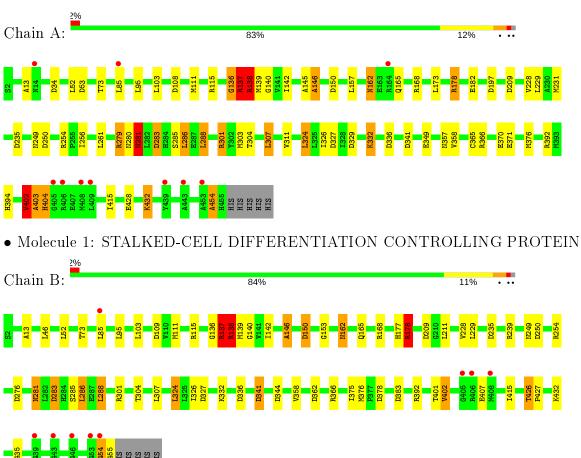
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	В	8	Total O 8 8	0	0



# 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 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: STALKED-CELL DIFFERENTIATION CONTROLLING PROTEIN





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 42 21 2	Depositor
Cell constants	135.87Å 135.87Å 169.25Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 - 2.70	Depositor
Resolution (A)	60.76 - 2.70	EDS
% Data completeness	98.9 (50.00-2.70)	Depositor
(in resolution range)	98.9 (60.76-2.70)	EDS
$R_{merge}$	0.08	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	$3.03~({\rm at}~2.69{\rm \AA})$	Xtriage
Refinement program	REFMAC 5.2.0001	Depositor
P. P.	0.210 , 0.239	Depositor
$R, R_{free}$	0.218 , (Not available)	DCC
$R_{free}$ test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	50.1	Xtriage
Anisotropy	0.371	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.31, 29.1	EDS
L-test for twinning <sup>2</sup>	$ < L > = 0.49, < L^2> = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	7210	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 2.59% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical values of <|L|>,  $< L^2>$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



<sup>&</sup>lt;sup>1</sup>Intensities estimated from amplitudes.

# 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: ZN, MG, 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).

Mal	<sub>Mol</sub>   <sub>Chain</sub>		nd lengths	Bond angles		
IVIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z >5	
1	A	0.91	9/3525~(0.3%)	1.43	$32/4765 \ (0.7\%)$	
1	В	0.92	6/3525~(0.2%)	1.33	$27/4765 \ (0.6\%)$	
All	All	0.91	$15/7050 \ (0.2\%)$	1.38	59/9530 (0.6%)	

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	Α	0	8
1	В	0	4
All	All	0	12

The worst 5 of 15 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	${ m Observed(\AA)}$	$\operatorname{Ideal}(\text{\AA})$
1	A	136	GLY	C-N	-29.09	0.67	1.34
1	В	301	ARG	CD-NE	-27.91	0.99	1.46
1	В	281	ASN	C-N	-27.30	0.71	1.34
1	A	281	ASN	C-N	-23.50	0.80	1.34
1	A	301	ARG	CD-NE	-18.24	1.15	1.46

The worst 5 of 59 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^o)$
1	A	281	ASN	O-C-N	-53.76	36.68	122.70
1	В	281	ASN	O-C-N	-52.33	38.97	122.70
1	A	454	ALA	O-C-N	-47.08	47.37	122.70
1	В	454	ALA	O-C-N	-30.80	73.42	122.70



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$\mathbf{Mol}$	Chain	${f Res}$	Type	${f Atoms}$	$\mathbf{Z}$	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^o)$	
1	В	281	ASN	C-N-CA	-16.01	81.68	121.70	

There are no chirality outliers.

5 of 12 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	136	GLY	Mainchain
1	A	281	ASN	Sidechain,Mainchain,Peptide
1	A	288	LEU	Peptide
1	A	301	ARG	Sidechain
1	A	454	ALA	Mainchain

#### 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	3481	0	3548	21	3
1	В	3481	0	3548	15	6
2	A	1	0	0	0	0
3	A	1	0	0	0	0
3	В	1	0	0	0	0
4	A	138	0	66	1	0
4	В	92	0	44	1	0
5	A	7	0	0	1	0
5	В	8	0	0	1	0
All	All	7210	0	7206	36	9

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.

The worst 5 of 36 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1 Atom-2		$egin{array}{l}  ext{Interatomic} \  ext{distance} \ ( ext{Å}) \end{array}$	Clash overlap (Å)	
1:B:165:GLN:HE22	1:B:254:ARG:HD2	1.56	0.71	
1:B:73:THR:HG21	5:B:2004:HOH:O	1.92	0.69	



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-	110116	DICUIUU	$Du_iu_{C}$

Atom-1	Atom-2	$egin{aligned}  ext{Interatomic} \  ext{distance} & ( ext{Å}) \end{aligned}$	Clash overlap (Å)
1:B:228:VAL:H	1:B:249:ASN:HD22	1.41	0.68
1:B:162:ASN:HD22	1:B:162:ASN:C	2.01	0.61
1:A:231:MET:SD	1:A:256:ILE:HD11	2.41	0.60

The worst 5 of 9 symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	$egin{array}{c}  ext{Interatomic} \  ext{distance } ( ext{Å}) \end{array}$	Clash overlap (Å)
1:B:138:ARG:NH2	1:B:341:ASP:OD2[8_666]	0.63	1.57
1:A:138:ARG:NH2	1:A:341:ASP:OD2[8_666]	1.12	1.08
1:B:138:ARG:NH2	1:B:341:ASP:CG[8_666]	1.59	0.61
1:B:137:ARG:NH1	1:B:407:GLU:CG[8_666]	1.67	0.53
1:A:138:ARG:NH2	1:A:341:ASP:CG[8_666]	1.89	0.31

## 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	Perce	entiles
1	A	452/459 (98%)	428 (95%)	11 (2%)	13 (3%)	4	10
1	В	452/459 (98%)	430 (95%)	13 (3%)	9 (2%)	7	19
All	All	904/918 (98%)	858 (95%)	24 (3%)	22 (2%)	6	15

5 of 22 Ramachandran outliers are listed below:

$\mathbf{Mol}$	Chain	${f Res}$	Type
1	A	146	ALA
1	A	281	ASN
1	A	286	LEU
1	A	403	ALA
1	В	146	ALA



#### 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	nalysed Rotameric Outliers		Percentiles		
1	A	369/374 (99%)	347 (94%)	22 (6%)	19	42	
1	В	369/374 (99%)	343 (93%)	26 (7%)	15	35	
All	All	738/748 (99%)	690 (94%)	48 (6%)	17	38	

5 of 48 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	432	LYS
1	В	137	ARG
1	В	402	VAL
1	В	52	LEU
1	В	95	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 13 such sidechains are listed below:

Mol	Chain	Res	Type
1	A	357	ASN
1	В	14	ASN
1	В	249	ASN
1	A	306	GLN
1	В	165	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 carbohydrates in this entry.

## 5.6 Ligand geometry (i)

Of 8 ligands modelled in this entry, 3 are monoatomic - leaving 5 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			
MIOI	Type	Chain	nes	S LINK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2
4	C2E	A	503	-	44,52,52	1.12	4 (9%)	54,82,82	2.02	16 (29%)
4	C2E	A	501	-	44,52,52	1.20	5 (11%)	54,82,82	1.99	16 (29%)
4	C2E	В	503	-	44,52,52	1.19	4 (9%)	54,82,82	2.00	16 (29%)
4	C2E	В	505	-	44,52,52	1.12	4 (9%)	54,82,82	2.07	16 (29%)
4	C2E	A	505	-	44,52,52	1.15	4 (9%)	54,82,82	2.08	17 (31%)

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
4	C2E	A	503	_	-	0/22/62/62	0/6/7/7
4	C2E	A	501	_	-	1/22/62/62	0/6/7/7
4	C2E	В	503	_	-	0/22/62/62	0/6/7/7
4	C2E	В	505	_	-	0/22/62/62	0/6/7/7
4	C2E	A	505	_	-	0/22/62/62	0/6/7/7

The worst 5 of 21 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(\mathbf{\mathring{A}})$	$\mathbf{Ideal}(\mathbf{\mathring{A}})$
4	В	503	C2E	C61-C51	4.48	1.49	1.41
4	A	501	C2E	C6-C5	4.48	1.49	1.41
4	A	505	C2E	C61-C51	3.96	1.48	1.41
4	A	501	C2E	C61-C51	3.95	1.48	1.41



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Mol	Chain	Res	Type	Atoms	Z	${ m Observed}({ m \AA})$	$Ideal(\AA)$
4	A	505	C2E	C6-C5	3.92	1.48	1.41

The worst 5 of 81 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$Ideal(^{o})$
4	В	505	C2E	C2-N3-C4	5.40	121.53	115.36
4	A	501	C2E	C2-N3-C4	5.07	121.15	115.36
4	A	503	C2E	C2-N3-C4	4.93	120.99	115.36
4	В	503	C2E	C2-N3-C4	4.82	120.86	115.36
4	A	505	C2E	C2-N3-C4	4.76	120.80	115.36

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	501	C2E	C5A-O5A-P11-O11

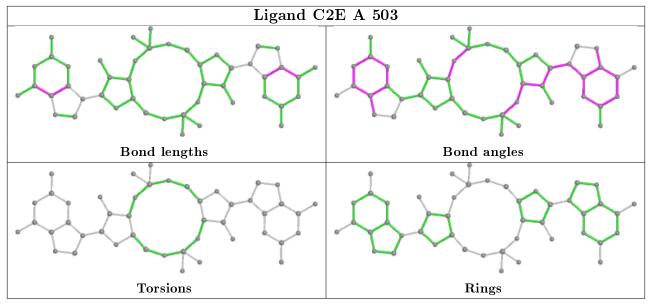
There are no ring outliers.

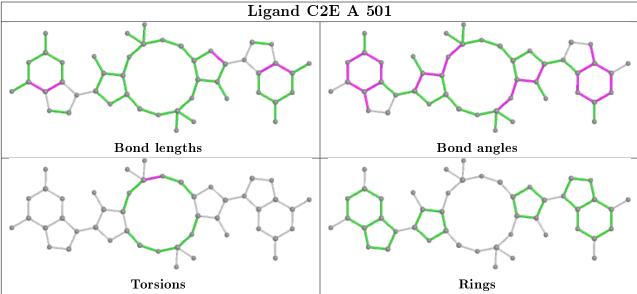
2 monomers are involved in 2 short contacts:

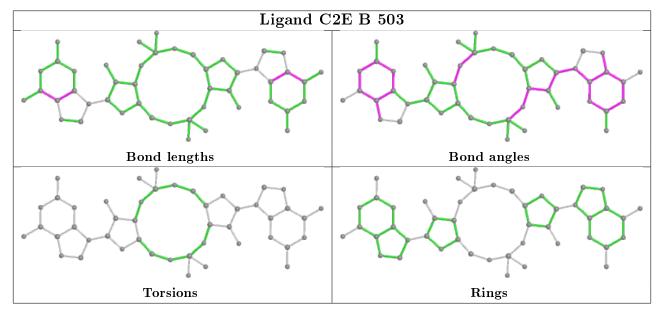
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	503	C2E	1	0
4	В	503	C2E	1	0

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 then 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.

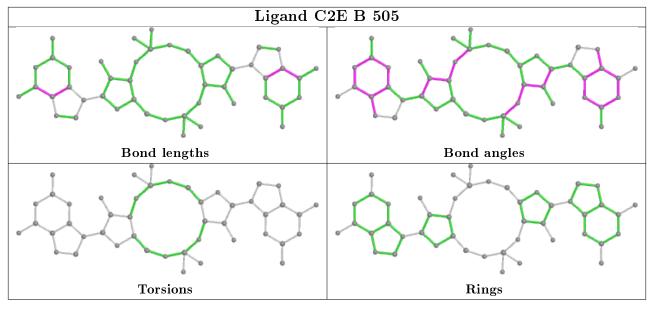


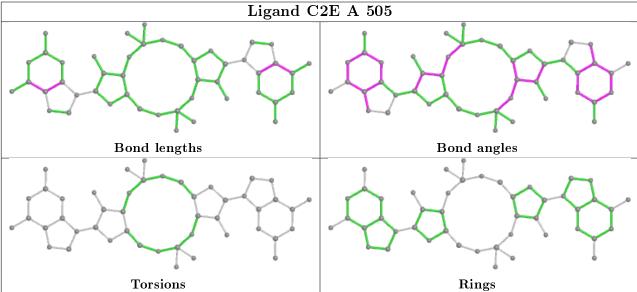












# 5.7 Other polymers (i)

There are no such residues in this entry.

## 5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	3
1	В	2

All chain breaks are listed below:



Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	В	136:GLY	С	137:ARG	N	1.03
1	A	454:ALA	С	455:HIS	N	0.98
1	A	281:ASN	С	282:LEU	N	0.80
1	В	281:ASN	С	282:LEU	N	0.71
1	A	136:GLY	С	137:ARG	N	0.67



## 6 Fit of model and data (i)

## 6.1 Protein, DNA and RNA chains (i)

In the following table, the column labelled '#RSRZ>2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median,  $95^{th}$  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 $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(Å^2)$	Q < 0.9
1	A	436/459 (94%)	0.13	10 (2%) 60 62	17, 27, 37, 44	9 (2%)
1	В	$436/459 \ (94\%)$	0.14	9 (2%) 63 65	17, 27, 37, 44	9 (2%)
All	All	872/918 (94%)	0.14	19 (2%) 62 63	17, 27, 37, 44	18 (2%)

The worst 5 of 19 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	446	ARG	4.3
1	В	454	ALA	4.2
1	В	405	GLY	3.3
1	A	443	ALA	3.1
1	A	408	MET	3.1

## 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.

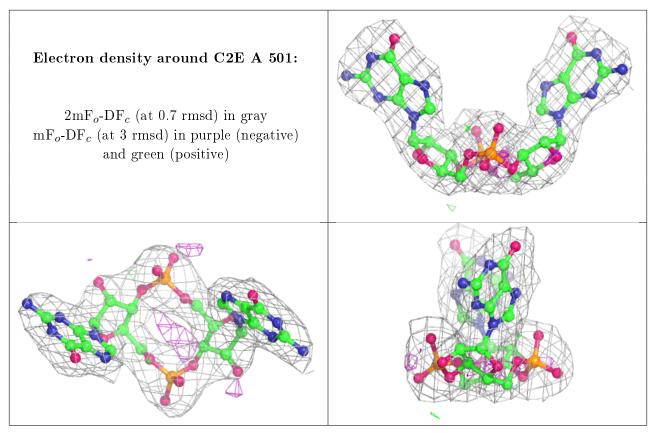
## 6.4 Ligands (i)

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. The B-factors column lists the minimum, median,  $95^{th}$  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.

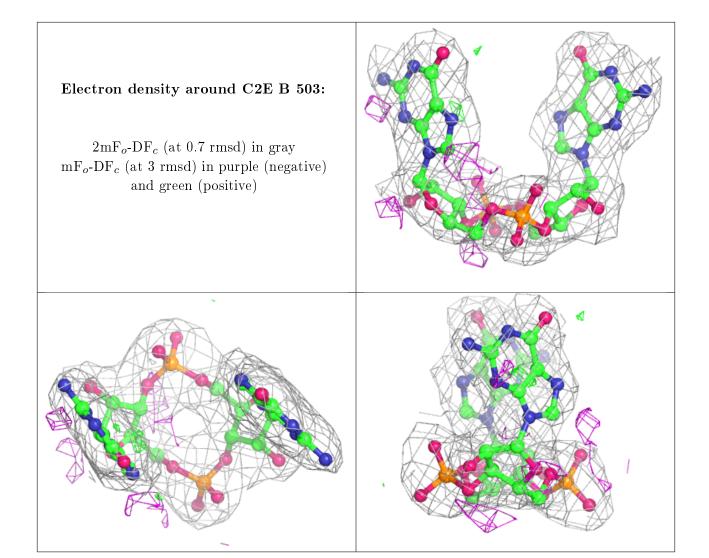


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
3	MG	В	500	1/1	0.73	0.10	39,39,39,39	0
3	MG	A	500	1/1	0.83	0.09	43,43,43,43	0
4	C2E	A	501	46/46	0.95	0.16	58,61,66,68	0
2	ZN	A	499	1/1	0.96	0.14	86,86,86,86	0
4	C2E	В	503	46/46	0.97	0.14	20,24,25,27	0
4	C2E	A	503	46/46	0.97	0.14	20,24,26,27	0
4	C2E	В	505	46/46	0.97	0.15	13,21,23,24	0
4	C2E	A	505	46/46	0.98	0.15	13,21,23,24	0

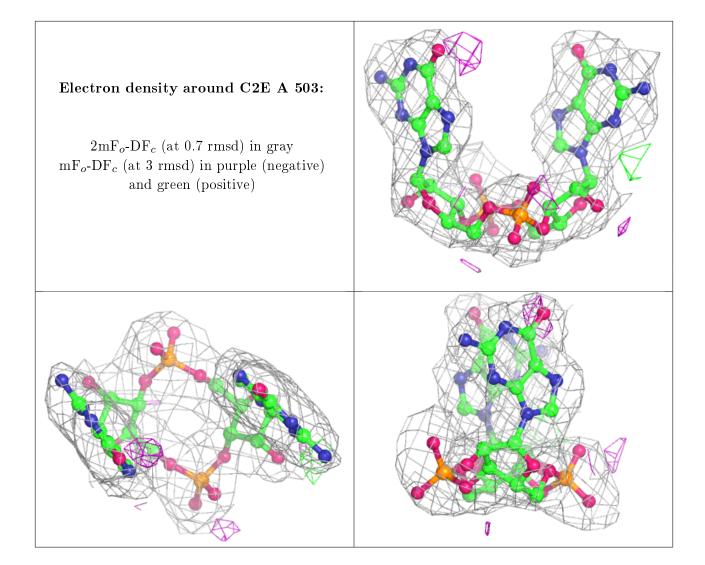
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



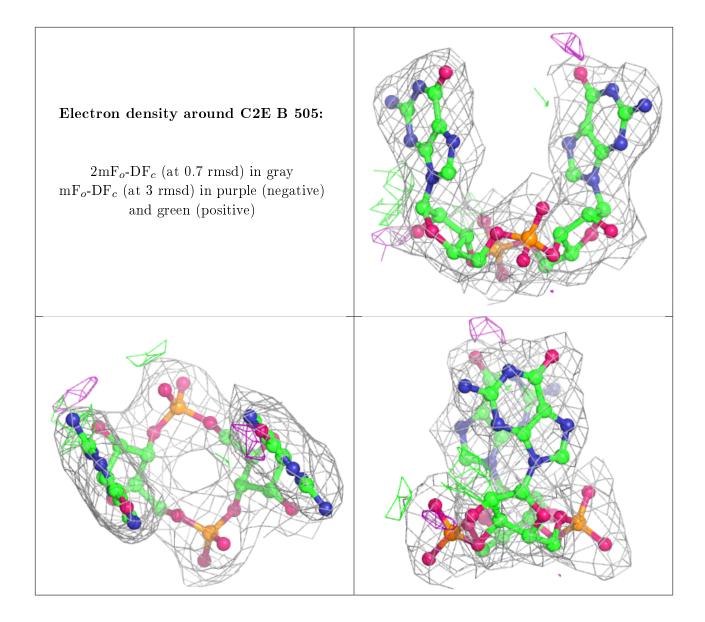




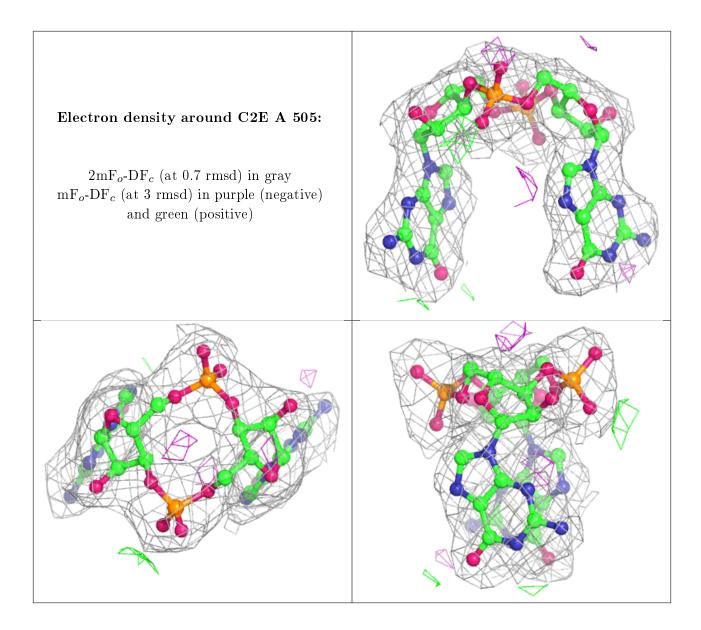












# 6.5 Other polymers (i)

There are no such residues in this entry.

