

wwPDB X-ray Structure Validation Summary Report (i)

Jun 15, 2024 – 05:37 PM EDT

PDB ID : 2P83

Title : Potent and selective isophthalamide S2 hydroxyethylamine inhibitor of BACE1 Authors : Benson, T.E.; Prince, D.B.; Tomasselli, A.G.; Emmons, T.L.; Paddock, D.J.

Deposited on : 2007-03-21

Resolution : 2.50 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 types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

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

MolProbity : 4.02b-467

Mogul : 2022.3.0, CSD as543be (2022)

Xtriage (Phenix) : 1.20.1

EDS : 2.37.1

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)

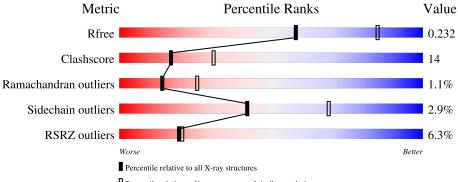
Validation Pipeline (wwPDB-VP) : 2.37.1

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 2.50 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.



Percentile relative to X-ray structures of similar resolution

Metric	Whole archive	Similar resolution
Metric	$(\# \mathrm{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	130704	4661 (2.50-2.50)
Clashscore	141614	5346 (2.50-2.50)
Ramachandran outliers	138981	5231 (2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

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 <=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	455	58%	22%		18%		
1	D		6%					
1	В	455	59%	21%	•	18%		
1	C	455	58%	22%	•	18%		

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	PO4	В	704	-	-	-	X



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 9104 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 Beta-secretase 1.

Mol	Chain	Residues	${f Atoms}$			ZeroOcc	AltConf	Trace		
1	Λ	A 371	Total	С	N	О	S	0	0	0
1	A		2924	1874	487	549	14	U		
1	В	372	Total	С	N	О	S	0	0 0	
1	Ъ	312	2929	1879	487	549	14	U		
1	С	272	Total	С	N	О	S	0	0	0
1		C 373	2937	1883	488	552	14	U	U	

There are 45 discrepancies between the modelled and reference sequences:

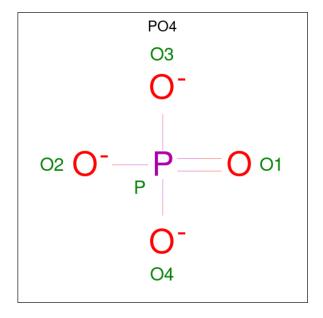
Chain	Residue	Modelled	Actual	Comment	Reference
A	1P	MET	-	EXPRESSION TAG	UNP P56817
A	2P	ALA	-	EXPRESSION TAG	UNP P56817
A	3P	SER	-	EXPRESSION TAG	UNP P56817
A	4P	MET	-	EXPRESSION TAG	UNP P56817
A	5P	THR	-	EXPRESSION TAG	UNP P56817
A	6P	GLY	-	EXPRESSION TAG	UNP P56817
A	7P	GLY	-	EXPRESSION TAG	UNP P56817
A	8P	GLN	-	EXPRESSION TAG	UNP P56817
A	9P	GLN	-	EXPRESSION TAG	UNP P56817
A	10P	MET	-	EXPRESSION TAG	UNP P56817
A	11P	GLY	-	EXPRESSION TAG	UNP P56817
A	12P	ARG	-	EXPRESSION TAG	UNP P56817
A	13P	GLY	-	EXPRESSION TAG	UNP P56817
A	14P	SER	-	EXPRESSION TAG	UNP P56817
A	15P	MET	-	EXPRESSION TAG	UNP P56817
В	1P	MET	-	EXPRESSION TAG	UNP P56817
В	2P	ALA	-	EXPRESSION TAG	UNP P56817
В	3P	SER	-	EXPRESSION TAG	UNP P56817
В	4P	MET	-	EXPRESSION TAG	UNP P56817
В	5P	THR	-	EXPRESSION TAG	UNP P56817
В	6P	GLY	-	EXPRESSION TAG	UNP P56817
В	7P	GLY	-	EXPRESSION TAG	UNP P56817
В	8P	GLN	-	EXPRESSION TAG	UNP P56817



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Chain	Residue	Modelled	Actual	Comment	Reference
В	9P	GLN	-	EXPRESSION TAG	UNP P56817
В	10P	MET	-	EXPRESSION TAG	UNP P56817
В	11P	GLY	-	EXPRESSION TAG	UNP P56817
В	12P	ARG	-	EXPRESSION TAG	UNP P56817
В	13P	GLY	-	EXPRESSION TAG	UNP P56817
В	14P	SER	-	EXPRESSION TAG	UNP P56817
В	15P	MET	-	EXPRESSION TAG	UNP P56817
С	1P	MET	-	EXPRESSION TAG	UNP P56817
С	2P	ALA	-	EXPRESSION TAG	UNP P56817
С	3P	SER	-	EXPRESSION TAG	UNP P56817
С	4P	MET	-	EXPRESSION TAG	UNP P56817
С	5P	THR	-	EXPRESSION TAG	UNP P56817
С	6P	GLY	-	EXPRESSION TAG	UNP P56817
С	7P	GLY	-	EXPRESSION TAG	UNP P56817
С	8P	GLN	-	EXPRESSION TAG	UNP P56817
С	9P	GLN	-	EXPRESSION TAG	UNP P56817
С	10P	MET	-	EXPRESSION TAG	UNP P56817
С	11P	GLY	-	EXPRESSION TAG	UNP P56817
С	12P	ARG	-	EXPRESSION TAG	UNP P56817
С	13P	GLY	-	EXPRESSION TAG	UNP P56817
С	14P	SER	-	EXPRESSION TAG	UNP P56817
С	15P	MET	-	EXPRESSION TAG	UNP P56817

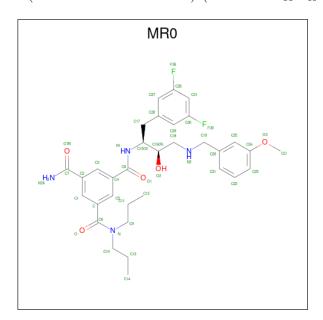
• Molecule 2 is PHOSPHATE ION (three-letter code: PO4) (formula: O₄P).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	Δ	1	Total O P	0	0
	11	1	5 4 1		U
2	٨	1	Total O P	0	0
	A	1	5 4 1		0
2	В	1	Total O P	0	0
	Ъ	1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		0
2	С	1	Total O P	0	0
		1	5 4 1		U

• Molecule 3 is N 3 -{(1S,2R)-1-(3,5-DIFLUOROBENZYL)-2-HYDROXY-3-[(3-METHOXY BENZYL)AMINO]PROPYL}-N 1 ,N 1 -DIPROPYLBENZENE-1,3,5-TRICARBOXAMID E (three-letter code: MR0) (formula: $C_{33}H_{40}F_2N_4O_5$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf			
3	Δ	1	Total	С	F	N	О	0	0		
'	A	1	44	33	2	4	5		U		
3	B	1	Total	С	F	N	О	0	0		
9	Б	Б	D 1	1	44	33	2	4	5	U	U
9	C	1	Total	С	F	N	О	0	0		
3	C	$C \mid 1$	44	33	2	4	5	0			

• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	64	Total O 64 64	0	0
4	В	52	Total O 52 52	0	0



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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	С	46	Total O 46 46	0	0

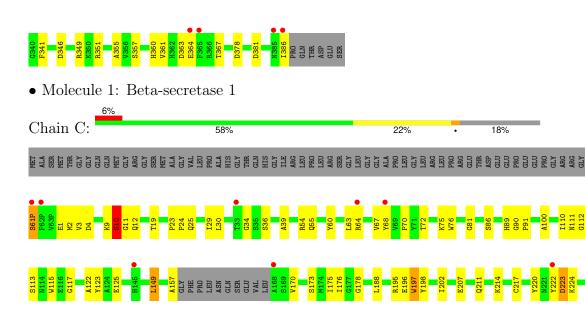


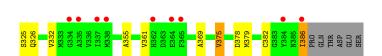
3 Residue-property plots (i)

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: Beta-secretase 1 Chain A: MARTINE STATE OF THE STATE OF T • Molecule 1: Beta-secretase 1 Chain B:









4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	81.96Å 103.35Å 101.01Å	Depositor
a, b, c, α , β , γ	90.00° 104.12° 90.00°	Depositor
Resolution (Å)	20.00 - 2.50	Depositor
rtesolution (A)	31.61 - 2.47	EDS
% Data completeness	83.7 (20.00-2.50)	Depositor
(in resolution range)	82.3 (31.61-2.47)	EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.84 (at 2.48Å)	Xtriage
Refinement program	CNS	Depositor
P. P.	0.207 , 0.242	Depositor
R, R_{free}	0.198 , 0.232	DCC
R_{free} test set	5104 reflections (10.08%)	wwPDB-VP
Wilson B-factor (Å ²)	46.0	Xtriage
Anisotropy	0.179	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.36, 40.9	EDS
L-test for twinning ²	$ < L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	9104	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 3.86% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



¹Intensities 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: MR0, PO4

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	Mol Chain	Bond	lengths	Bond angles		
IVIOI		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.39	0/2998	0.68	1/4072~(0.0%)	
1	В	0.37	0/3003	0.68	1/4079 (0.0%)	
1	С	0.37	0/3011	0.69	0/4090	
All	All	0.38	0/9012	0.68	$2/12241 \ (0.0\%)$	

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^{o})$	$\operatorname{Ideal}({}^{o})$
1	A	193	ILE	N-CA-C	-5.12	97.18	111.00
1	В	198	TYR	N-CA-C	-5.02	97.43	111.00

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	2924	0	2844	86	0
1	В	2929	0	2854	75	0
1	С	2937	0	2858	87	0
2	A	10	0	0	1	0
2	В	5	0	0	1	0
2	С	5	0	0	1	0



Continued	trom	mmoninonic	maaa
COHABABACA		DIEUIUU	DUIUE
0 0 1000100000			

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	44	0	40	3	0
3	В	44	0	40	1	0
3	С	44	0	40	4	0
4	A	64	0	0	0	0
4	В	52	0	0	0	0
4	С	46	0	0	1	0
All	All	9104	0	8676	238	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 14.

The worst 5 of 238 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:4:ASP:H	1:C:173:SER:HB3	1.27	0.96
1:C:269:CYS:HG	1:C:319:CYS:HG	0.88	0.87
1:C:4:ASP:N	1:C:173:SER:HB3	1.97	0.79
1:C:271:GLN:H	1:C:271:GLN:CD	1.91	0.74
1:A:9:LYS:HG3	1:A:12:GLN:HG3	1.69	0.74

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	Perce	entiles
1	A	365/455~(80%)	340 (93%)	21 (6%)	4 (1%)	14	26
1	В	366/455 (80%)	336 (92%)	26 (7%)	4 (1%)	14	26
1	С	367/455 (81%)	345 (94%)	18 (5%)	4 (1%)	14	26
All	All	1098/1365 (80%)	1021 (93%)	65 (6%)	12 (1%)	14	26



5 of 12 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	62(P)	PHE
1	A	223	ASP
1	В	10	SER
1	В	223	ASP
1	С	10	SER

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	317/381 (83%)	310 (98%)	7 (2%)	52	77	
1	В	317/381 (83%)	309 (98%)	8 (2%)	47	73	
1	С	318/381 (84%)	305 (96%)	13 (4%)	30	55	
All	All	952/1143 (83%)	924 (97%)	28 (3%)	42	69	

5 of 28 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	В	294	GLN
1	С	386	ILE
1	С	10	SER
1	С	325	SER
1	С	1	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 16 such sidechains are listed below:

Mol	Chain	Res	Type
1	С	278	ASN
1	С	211	GLN
1	В	111	ASN
1	С	111	ASN
1	В	98	ASN



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 monosaccharides in this entry.

5.6 Ligand geometry (i)

7 ligands are modelled in this entry.

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

Mol	Trunc	Chain	Dag	Link	В	ond leng	gths	В	ond ang	gles
MIOI	Type	Chain	Res	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
2	PO4	A	702	-	4,4,4	2.06	3 (75%)	6,6,6	0.43	0
3	MR0	В	802	-	43,46,46	2.49	13 (30%)	44,62,62	2.24	12 (27%)
2	PO4	С	701	-	4,4,4	1.93	3 (75%)	6,6,6	0.46	0
2	PO4	В	704	-	4,4,4	1.42	0	6,6,6	0.50	0
2	PO4	A	703	-	4,4,4	1.38	0	6,6,6	0.45	0
3	MR0	С	803	-	43,46,46	2.25	12 (27%)	44,62,62	1.96	9 (20%)
3	MR0	A	801	-	43,46,46	2.30	14 (32%)	44,62,62	2.00	12 (27%)

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	MR0	В	802	-	-	17/41/42/42	0/3/3/3
3	MR0	С	803	-	-	19/41/42/42	0/3/3/3



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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	MR0	A	801	-	-	17/41/42/42	0/3/3/3

The worst 5 of 45 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	Ideal(Å)
3	В	802	MR0	C25-C20	7.33	1.49	1.36
3	В	802	MR0	C29-C28	6.71	1.48	1.36
3	A	801	MR0	C25-C20	6.35	1.47	1.36
3	В	802	MR0	C6-N	6.21	1.45	1.34
3	С	803	MR0	C25-C20	6.13	1.47	1.36

The worst 5 of 33 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
3	В	802	MR0	O3-C24-C25	8.62	131.30	113.54
3	A	801	MR0	O3-C24-C25	6.84	127.64	113.54
3	С	803	MR0	O3-C24-C25	6.83	127.62	113.54
3	В	802	MR0	O3-C24-C23	-5.65	111.90	124.54
3	С	803	MR0	C17-C15-N1	-4.83	104.28	109.58

There are no chirality outliers.

5 of 53 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	801	MR0	C5-C4-C8-O1
3	A	801	MR0	C-C6-N-C10
3	A	801	MR0	C-C6-N-C9
3	A	801	MR0	O-C6-N-C10
3	A	801	MR0	O-C6-N-C9

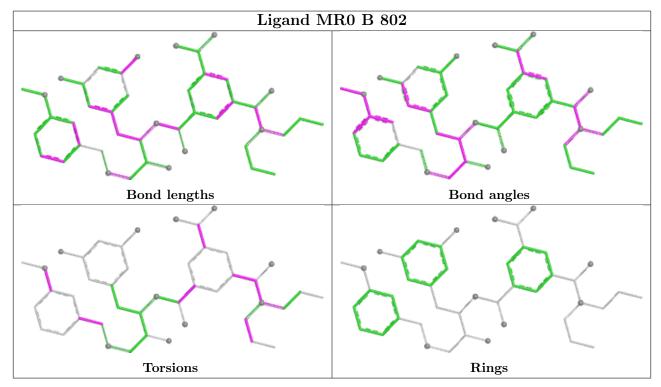
There are no ring outliers.

6 monomers are involved in 11 short contacts:

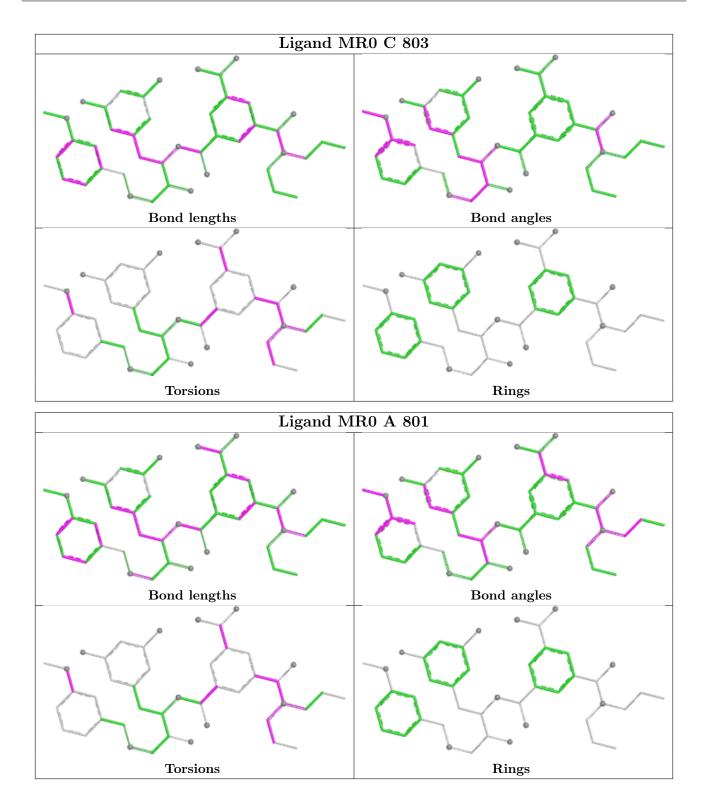
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	В	802	MR0	1	0
2	С	701	PO4	1	0
2	В	704	PO4	1	0
2	A	703	PO4	1	0
3	С	803	MR0	4	0
3	A	801	MR0	3	0



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)

There are no chain breaks in this entry.



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></rsrz>	#RSRZ>2		$OWAB(A^2)$	Q<0.9	
1	A	371/455~(81%)	0.06	15 (4%)	38	41	26, 41, 65, 81	0
1	В	372/455~(81%)	0.32	29 (7%)	13	13	23, 46, 74, 89	0
1	С	373/455 (81%)	0.21	26 (6%)	16	16	26, 44, 70, 86	0
All	All	1116/1365 (81%)	0.20	70 (6%)	20	21	23, 44, 71, 89	0

The worst 5 of 70 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	С	386	ILE	5.5
1	С	272	ALA	5.3
1	В	168	ALA	5.2
1	В	61(P)	SER	4.6
1	В	310	GLU	4.4

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 monosaccharides in this entry.

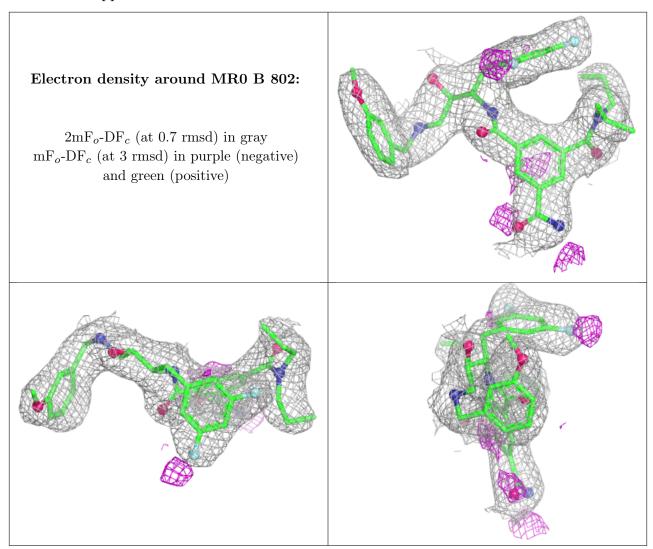
6.4 Ligands (i)

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.

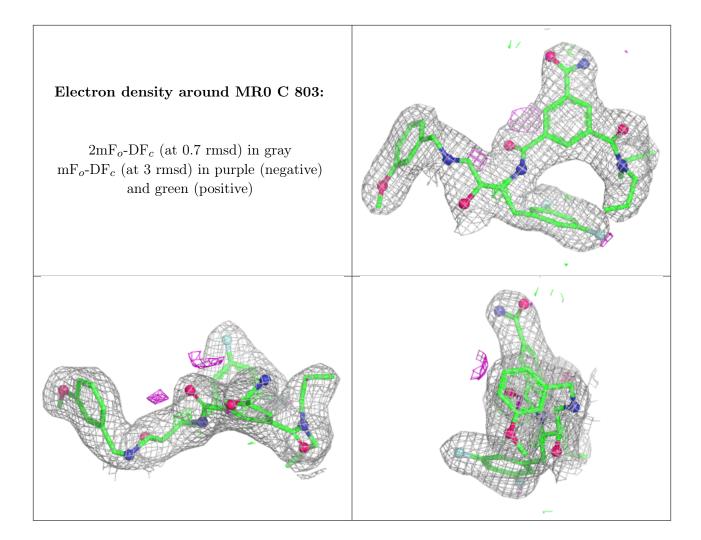


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	PO4	В	704	5/5	0.61	0.42	99,99,99,99	0
2	PO4	С	701	5/5	0.73	0.37	99,99,99,99	0
2	PO4	A	703	5/5	0.75	0.38	96,96,97,98	0
3	MR0	В	802	44/44	0.90	0.23	38,43,45,49	0
2	PO4	A	702	5/5	0.91	0.45	99,99,99,99	0
3	MR0	С	803	44/44	0.93	0.22	36,40,45,49	0
3	MR0	A	801	44/44	0.94	0.18	29,35,39,43	0

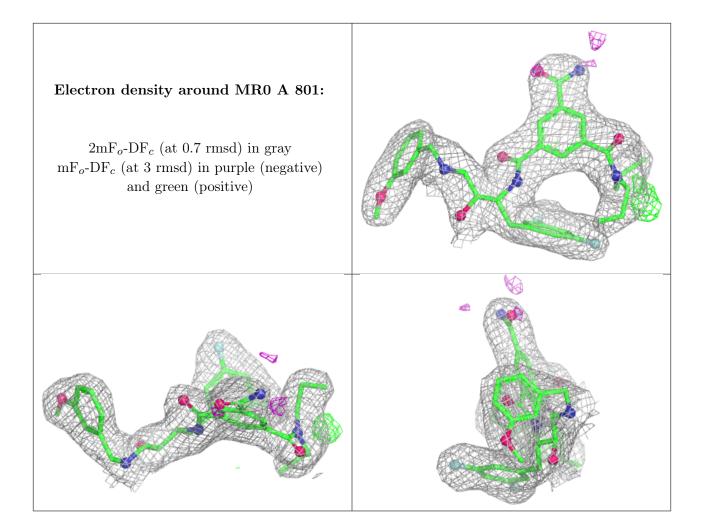
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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











6.5 Other polymers (i)

There are no such residues in this entry.

