

Full wwPDB X-ray Structure Validation Report (i)

May 13, 2020 - 03:32 am BST

PDB ID : 3L5E

Title : Structure of BACE Bound to SCH736062

Authors : Strickland, C.; Zhu, Z.

Deposited on : 2009-12-21

Resolution : 1.53 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 (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)

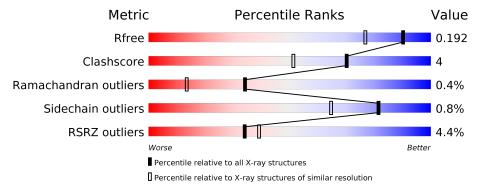
Validation Pipeline (wwPDB-VP) : 2.11

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 1.53 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
R_{free}	130704	2556 (1.56-1.52)
Clashscore	141614	2634 (1.56-1.52)
Ramachandran outliers	138981	2580 (1.56-1.52)
Sidechain outliers	138945	2577 (1.56-1.52)
RSRZ outliers	127900	2524 (1.56-1.52)

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	414	86%	7%	• 6%			
1	В	414	86%	7%	7%			

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	TAR	A	2	X	-	-	-
2	TAR	В	1	X	-	-	-
2	TAR	В	3	X	-	-	-



2 Entry composition (i)

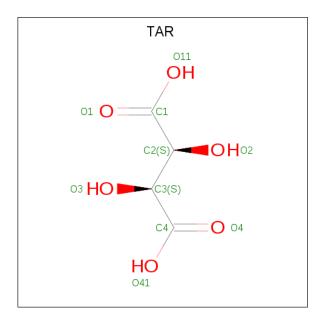
There are 4 unique types of molecules in this entry. The entry contains 7082 atoms, of which 0 are hydrogens and 0 are deuteriums.

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	Atoms			ZeroOcc	AltConf	Trace		
1	Λ	390	Total	С	Ν	О	S	0	0	0
1	Λ	390	3060	1959	508	579	14	0	0	
1	B	386	Total	С	N	О	S	0	0	0
1	Ъ	360	3032	1942	503	573	14	0	0	

• Molecule 2 is D(-)-TARTARIC ACID (three-letter code: TAR) (formula: C₄H₆O₆).

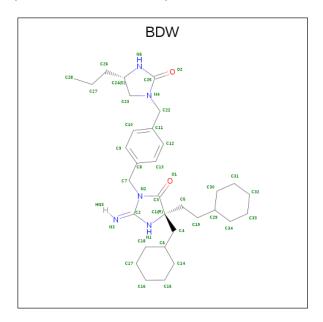


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 10 4 6	0	0
2	В	1	Total C O 10 4 6	0	0
2	В	1	Total C O 10 4 6	0	0

• Molecule 3 is (4S)-1-(4-{[(2Z,4R)-4-(2-cyclohexylethyl)-4-(cyclohexylmethyl)-2-imino-5-o xoimidazolidin-1-yl|methyl|benzyl)-4-propylimidazolidin-2-one (three-letter code: BDW)



(formula: $C_{32}H_{49}N_5O_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C N O 39 32 5 2	0	0
3	В	1	Total C N O 39 32 5 2	0	0

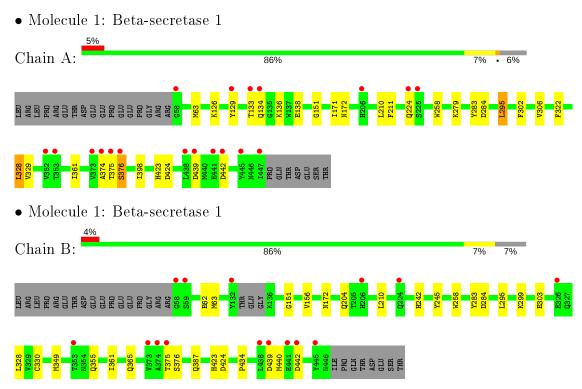
• Molecule 4 is water.

\mathbf{Mol}	Chain	Residues	${f Atoms}$	ZeroOcc	${f AltConf}$
4	A	458	Total O 458 458	0	0
4	В	424	Total O 424 424	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.





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	86.48Å 89.47Å 130.65Å	Danagitan
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 - 1.53	Depositor
Resolution (A)	20.00 - 1.53	EDS
% Data completeness	96.0 (20.00-1.53)	Depositor
(in resolution range)	96.3 (20.00-1.53)	EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.89 (at 1.53Å)	Xtriage
Refinement program	CNS	Depositor
D D	0.186 , 0.200	Depositor
R, R_{free}	0.179 , 0.192	DCC
R_{free} test set	7383 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	15.5	Xtriage
Anisotropy	0.330	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.39 , 56.1	EDS
L-test for twinning ²	$< L >=0.48, < L^2>=0.30$	Xtriage
Estimated twinning fraction	0.000 for k,h,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	7082	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 45.32 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 1.3434e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

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: BDW, TAR

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		
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.48	0/3138	0.73	1/4267 (0.0%)	
1	В	0.47	0/3109	0.72	1/4226 (0.0%)	
All	All	0.48	0/6247	0.73	2/8493 (0.0%)	

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$Ideal(^{o})$
1	Α	295	LEU	N-CA-C	-5.11	97.20	111.00
1	В	295	LEU	N-CA-C	-5.01	97.48	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	3060	0	2970	23	0
1	В	3032	0	2940	21	0
2	A	10	0	4	0	0
2	В	20	0	8	0	0
3	A	39	0	48	1	0
3	В	39	0	48	0	0
4	A	458	0	0	3	0



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Mol	Chain	Non-H	$\mathbf{H}(\mathbf{model})$	$\mathbf{H}(\mathbf{added})$	Clashes	Symm-Clashes
4	В	424	0	0	0	0
All	All	7082	0	6018	44	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 (44) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${f distance}\;({f \AA})$	$overlap(\AA)$
1:A:133:THR:HG22	1:A:134:GLN:HG3	1.48	0.94
1:B:361:ILE:HG23	1:B:365:GLN:HB2	1.69	0.75
1:A:361:ILE:HD13	1:A:398:ILE:HD12	1.72	0.71
1:A:224:GLN:HG3	4:A:780:HOH:O	1.92	0.69
1:A:129:TYR:HE1	1:A:136:LYS:HD2	1.56	0.69
1:A:129:TYR:HD1	1:A:138:GLU:HG2	1.60	0.67
1:A:63:MET:HG2	1:A:151:GLY:HA2	1.78	0.64
1:B:361:ILE:CG2	1:B:365:GLN:HB2	2.26	0.64
1:B:62:GLU:HG2	1:B:63:MET:HG3	1.87	0.56
1:A:423:HIS:HD2	1:A:424:ASP:O	1.89	0.56
1:A:328:LEU:HD12	1:A:328:LEU:O	2.07	0.55
1:A:361:ILE:HD13	1:A:398:ILE:CD1	2.35	0.55
1:A:126:LYS:HE2	4:A:703:HOH:O	2.07	0.54
1:B:328:LEU:C	1:B:328:LEU:HD12	2.28	0.53
1:B:423:HIS:HD2	1:B:424:ASP:O	1.94	0.51
1:B:361:ILE:HG23	1:B:365:GLN:CB	2.41	0.48
1:B:156:VAL:HG13	1:B:204:GLN:OE1	2.13	0.48
1:A:328:LEU:C	1:A:328:LEU:HD12	2.34	0.48
1:B:375:THR:HG22	1:B:375:THR:O	2.13	0.47
1:A:279:LYS:HE3	4:A:694:HOH:O	2.15	0.47
1:B:283:TYR:HA	1:B:284:ASP:HA	1.75	0.46
1:B:328:LEU:HD13	1:B:330:CYS:SG	2.56	0.46
1:B:328:LEU:HD12	1:B:328:LEU:O	2.15	0.46
1:A:210:LEU:C	1:A:210:LEU:HD23	2.35	0.46
1:A:295:LEU:HB2	1:A:398:ILE:HD11	1.97	0.46
1:B:299:LYS:O	1:B:303:GLU:HG3	2.16	0.45
1:A:439:ASP:HB3	1:A:442:ASP:OD2	2.16	0.45
1:A:63:MET:CG	1:A:151:GLY:HA2	2.45	0.45
1:A:302:PHE:CZ	1:A:306:VAL:HG21	2.52	0.45
1:B:156:VAL:HG13	1:B:204:GLN:CD	2.38	0.45
1:B:349:MET:HE2	1:B:440:MET:HB3	1.98	0.45
1:B:439:ASP:HB3	1:B:442:ASP:OD2	2.18	0.44



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Atom-1	Atom-2	$egin{array}{c} ext{Interatomic} \ ext{distance } (ext{Å}) \end{array}$	$egin{array}{c} { m Clash} \\ { m overlap} \ ({ m \AA}) \end{array}$
1:A:374:ALA:O	1:A:376:SER:N	2.51	0.44
1:B:210:LEU:C	1:B:210:LEU:HD23	2.38	0.43
1:A:283:TYR:HA	1:A:284:ASP:HA	1.72	0.43
1:A:171:ILE:HD11	3:A:1:BDW:H26	2.01	0.42
1:A:133:THR:HG22	1:A:134:GLN:N	2.35	0.42
1:B:355:GLN:HE21	1:B:355:GLN:HB2	1.65	0.42
1:A:210:LEU:HD23	1:A:211:PHE:N	2.36	0.41
1:B:299:LYS:HA	1:B:387:GLN:HG3	2.03	0.41
1:B:242:HIS:HA	1:B:245:TYR:CE1	2.56	0.41
1:A:322:PHE:CD1	1:A:329:VAL:HG13	2.55	0.41
1:B:63:MET:HG2	1:B:151:GLY:HA2	2.03	0.41
1:B:355:GLN:HG3	1:B:434:PRO:HB2	2.03	0.41

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	388/414 (94%)	378 (97%)	8 (2%)	2 (0%)	29 9
1	В	$382/414 \ (92\%)$	373 (98%)	8 (2%)	1 (0%)	41 19
All	All	770/828 (93%)	751 (98%)	16 (2%)	3 (0%)	34 13

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	376	SER
1	A	375	THR
1	В	376	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	ain Analysed Rotameric Outliers		Percentiles			
1	A	332/355 (94%)	329 (99%)	3 (1%)	78 60		
1	В	329/355~(93%)	327 (99%)	2 (1%)	86 72		
All	All	661/710 (93%)	656 (99%)	5 (1%)	81 64		

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	172	ASN
1	A	258	TRP
1	A	328	LEU
1	В	172	ASN
1	В	258	TRP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	134	GLN
1	A	172	ASN
1	A	423	HIS
1	В	89	ASN
1	В	172	ASN
1	В	242	HIS
1	В	332	GLN
1	В	355	GLN
1	В	423	HIS

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)

5 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	Tuno	Chain	Res	Res Link	Во	Bond lengths			Bond angles		
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
2	TAR	В	3	-	3,9,9	0.46	0	6,12,12	1.19	1 (16%)	
2	TAR	A	2	-	3,9,9	0.56	0	6,12,12	1.11	0	
3	BDW	A	1	-	42,43,43	1.05	3 (7%)	44,60,60	1.68	4 (9%)	
2	TAR	В	1	-	3,9,9	0.61	0	6,12,12	1.01	0	
3	BDW	В	455	_	42,43,43	1.06	5 (11%)	44,60,60	1.68	5 (11%)	

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	TAR	В	3	-	2/2/4/4	0/4/12/12	-
2	TAR	A	2	-	2/2/4/4	0/4/12/12	-
3	BDW	A	1	-	-	4/22/69/69	0/5/5/5
2	TAR	В	1	-	2/2/4/4	0/4/12/12	-
3	BDW	В	455	-	-	6/22/69/69	0/5/5/5

All (8) bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(\text{\AA})$
3	В	455	BDW	C10-C9	2.68	1.43	1.38
3	A	1	BDW	C10-C9	2.52	1.43	1.38
3	В	455	BDW	C12-C11	2.20	1.43	1.38
3	A	1	BDW	C12-C11	2.14	1.43	1.38
3	A	1	BDW	C13-C12	2.11	1.42	1.38
3	В	455	BDW	C13-C12	2.11	1.42	1.38
3	В	455	BDW	C10-C11	2.05	1.43	1.38
3	В	455	BDW	C9-C8	2.03	1.43	1.38

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$Ideal(^{o})$
3	A	1	BDW	C1-N1-C2	-8.38	106.92	113.33
3	В	455	BDW	C1-N1-C2	-8.03	107.19	113.33
3	A	1	BDW	C3-C1-N1	2.91	102.34	100.72
3	В	455	BDW	C3-C1-N1	2.78	102.26	100.72
3	В	455	BDW	C23-N4-C25	2.63	114.88	111.44
3	A	1	BDW	C23-N4-C25	2.62	114.86	111.44
3	В	455	BDW	N5-C25-N4	2.55	110.89	108.33
3	В	455	BDW	C24-N5-C25	-2.25	108.40	111.98
3	A	1	BDW	N5-C25-N4	2.24	110.57	108.33
2	В	3	TAR	C4-C3-C2	-2.14	108.50	113.11

All (6) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	В	3	TAR	C2
2	В	3	TAR	C3
2	A	2	TAR	C2
2	A	2	TAR	C3
2	В	1	TAR	C2
2	В	1	TAR	C3

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	В	455	BDW	C1-C4-C6-C14
3	В	455	BDW	C1-C4-C6-C18
3	A	1	BDW	N5-C24-C26-C27
3	A	1	BDW	C23-C24-C26-C27
3	В	455	BDW	C23-C24-C26-C27
3	A	1	BDW	C12-C11-C22-N4
3	В	455	BDW	C12-C11-C22-N4



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Mol	Chain	Res	Type	${f Atoms}$
3	A	1	BDW	C10-C11-C22-N4
3	В	455	BDW	C10-C11-C22-N4
3	В	455	BDW	N5-C24-C26-C27

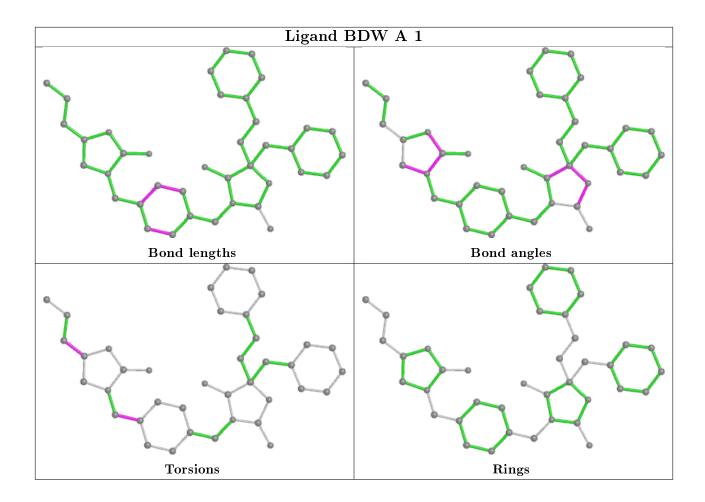
There are no ring outliers.

1 monomer is involved in 1 short contact:

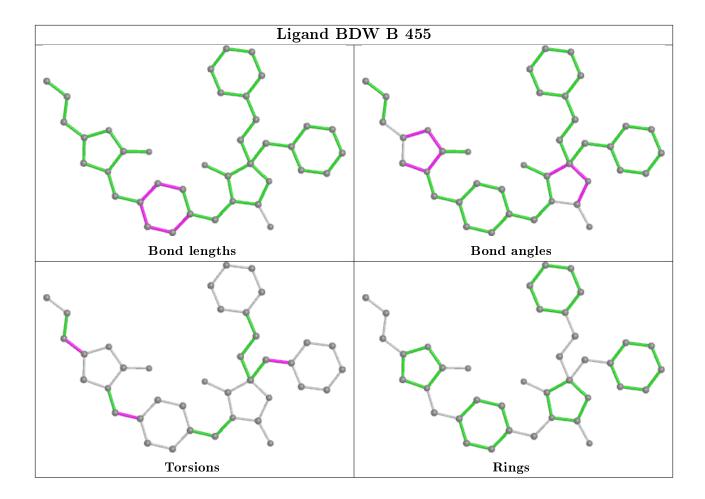
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1	BDW	1	0

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)

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 $>$	$\#\mathrm{RSRZ}{>}2$		$ ext{OWAB}(ext{Å}^2)$	Q < 0.9
1	A	390/414 (94%)	0.16	19 (4%) 29	33	9, 16, 35, 66	0
1	В	386/414 (93%)	0.07	15 (3%) 39	45	10, 16, 32, 61	0
All	All	776/828 (93%)	0.12	34 (4%) 34	39	9, 16, 34, 66	0

All (34) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	373	VAL	12.9
1	A	373	VAL	12.7
1	A	375	THR	12.3
1	В	375	THR	11.1
1	A	447	ILE	9.7
1	A	134	GLN	8.3
1	В	374	ALA	7.0
1	A	374	ALA	6.8
1	A	133	THR	5.1
1	В	441	GLU	4.6
1	A	129	TYR	4.5
1	A	441	GLU	4.2
1	В	438	LEU	4.1
1	В	224	GLN	3.9
1	A	224	GLN	3.6
1	В	59	SER	3.4
1	A	438	LEU	3.2
1	A	206	HIS	3.2
1	A	376	SER	3.1
1	В	206	HIS	3.1
1	A	353	THR	3.0
1	A	445	TYR	2.8
1	A	439	ASP	2.7
1	В	353	THR	2.7



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Mol	Chain	Res	Type	RSRZ
1	В	132	TYR	2.7
1	В	445	TYR	2.6
1	A	442	ASP	2.3
1	A	352	VAL	2.3
1	В	58	GLY	2.2
1	A	225	SER	2.2
1	A	58	GLY	2.2
1	В	439	ASP	2.1
1	В	442	ASP	2.1
1	В	326	GLU	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.

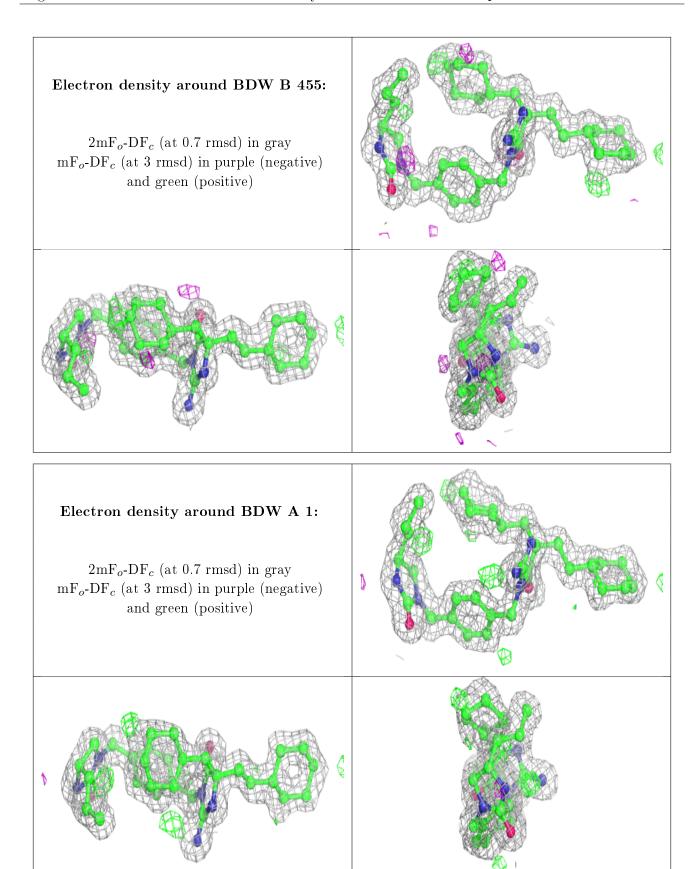
6.4 Ligands (i)

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. 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	${f B\text{-factors}}({f \AA}^2)$	Q < 0.9
2	TAR	A	2	10/10	0.86	0.25	24,33,35,39	0
2	TAR	В	3	10/10	0.87	0.28	24,32,35,37	0
3	BDW	В	455	39/39	0.89	0.10	13,18,28,30	0
2	TAR	В	1	10/10	0.89	0.14	20,25,33,35	0
3	BDW	A	1	39/39	0.91	0.10	13,21,29,35	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.

