Full wwPDB X-ray Structure Validation Report ⓘ

Sep 24, 2023 – 02:50 PM EDT

PDB ID : 5UNH

Title : Synchrotron structure of human angiotensin II type 2 receptor in complex with compound 2 (N-[(furan-2-yl)methyl]-N-(4-oxo-2-propyl-3-{[2'-(2H-tetrazol-5-yl)[1,1'- biphenyl]-4-yl]methyl}-3,4-dihydroquinazolin-6-yl)benzamide)

Authors : Zhang, H.; Han, G.W.; Batyuk, A.; Ishchenko, A.; White, K.L.; Patel, N.; Sadybekov, A.; Zamlynny, B.; Rudd, M.T.; Hollenstein, K.; Tolstikova, A.; White, T.A.; Hunter, M.S.; Weierstall, U.; Liu, W.; Babaoglu, K.; Moore, E.L.; Katz, R.D.; Shipman, J.M.; Garcia-Calvo, M.; Sharma, S.; Sheth, P.; Soisson, S.M.; Stevens, R.C.; Katritch, V.; Cherezov, V.

Deposited on : 2017-01-30

Resolution : 2.90 Å(reported)

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

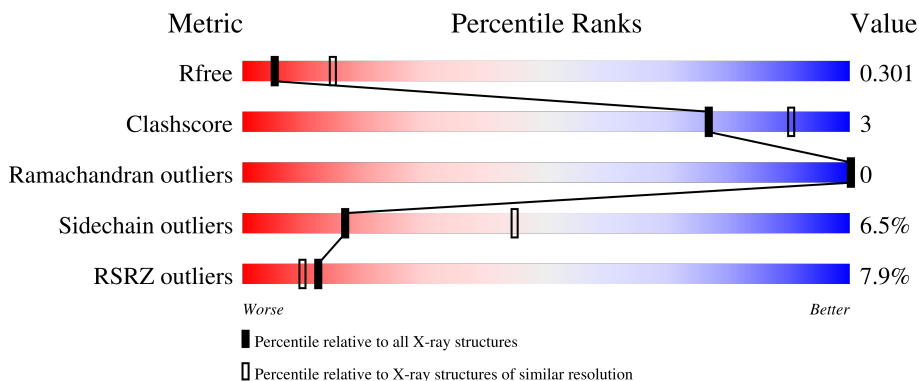|		
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158

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 2.90 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	Percentile Ranks	Value
Rfree		0.301
Clashscore		3
Ramachandran outliers		0
Sidechain outliers		6.5%
RSRZ outliers		7.9%

Worse   *Better*

▮ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1957 (2.90-2.90)
Clashscore	141614	2172 (2.90-2.90)
Ramachandran outliers	138981	2115 (2.90-2.90)
Sidechain outliers	138945	2117 (2.90-2.90)
RSRZ outliers	127900	1906 (2.90-2.90)

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	411	3% 81% 12% · 6%
1	B	411	11% 81% 9% 9%

CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

WORLDWIDE
wwPDB
PROTEIN DATA BANK

2 Entry composition ⓘ

There are 2 unique types of molecules in this entry. The entry contains 5877 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 Soluble cytochrome b562,Type-2 angiotensin II receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	385	Total 2983	C 1971	N 473	O 517	S 22	0	0	0
1	B	372	Total 2800	C 1837	N 445	O 499	S 19	0	0	0

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1007	TRP	MET	engineered mutation	UNP P0ABE7
A	1102	ILE	HIS	engineered mutation	UNP P0ABE7
A	1106	LEU	ARG	engineered mutation	UNP P0ABE7
A	1107	GLY	-	linker	UNP P0ABE7
A	1108	SER	-	linker	UNP P0ABE7
A	1109	GLY	-	linker	UNP P0ABE7
A	1110	SER	-	linker	UNP P0ABE7
B	1007	TRP	MET	engineered mutation	UNP P0ABE7
B	1102	ILE	HIS	engineered mutation	UNP P0ABE7
B	1106	LEU	ARG	engineered mutation	UNP P0ABE7
B	1107	GLY	-	linker	UNP P0ABE7
B	1108	SER	-	linker	UNP P0ABE7
B	1109	GLY	-	linker	UNP P0ABE7
B	1110	SER	-	linker	UNP P0ABE7

- Molecule 2 is N-[(furan-2-yl)methyl]-N-(4-oxo-2-propyl-3-{[2'-(2H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl}-3,4-dihydroquinazolin-6-yl)benzamide (three-letter code: 8EM) (formula: $C_{37}H_{31}N_7O_3$).
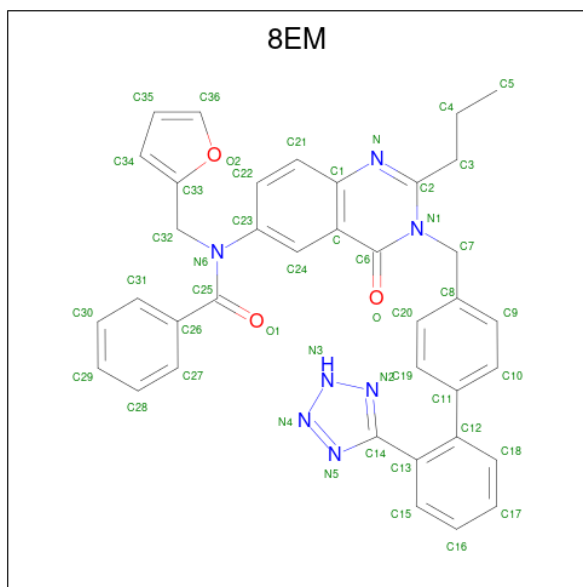
| Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			47	37	7	3		
2	B	1	Total	C	N	O	0	0
			47	37	7	3		

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: Soluble cytochrome b562,Type-2 angiotensin II receptor
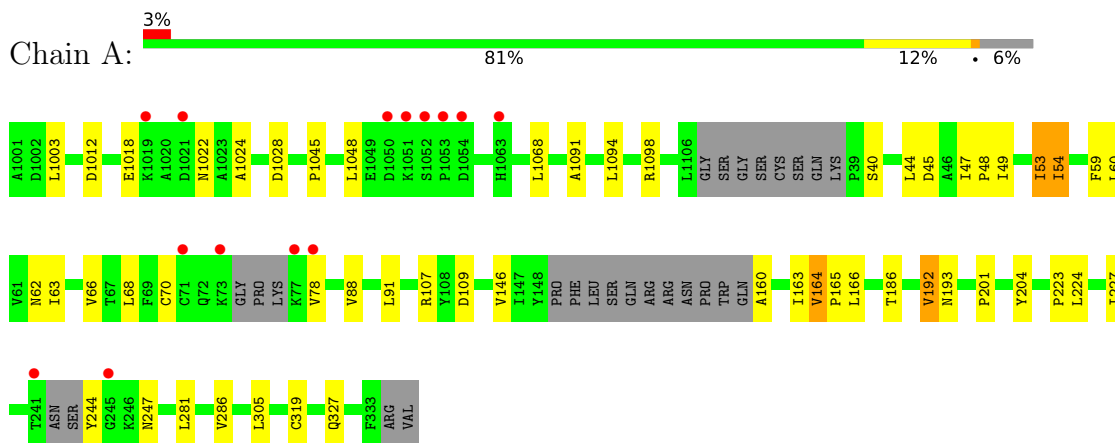
• Molecule 1: Soluble cytochrome b562,Type-2 angiotensin II receptor
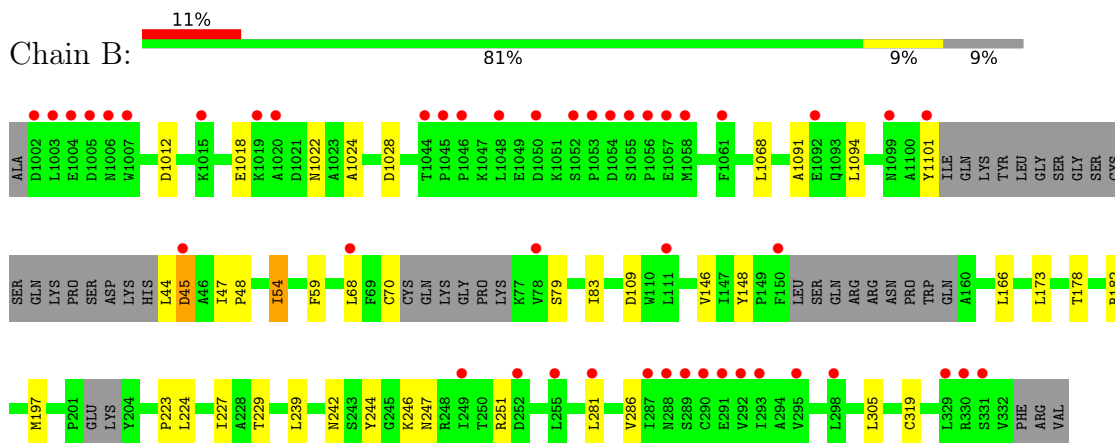
4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	78.42Å 68.20Å 89.06Å 90.00° 104.32° 90.00°	Depositor
Resolution (Å)	30.00 – 2.90 29.58 – 2.90	Depositor EDS
% Data completeness (in resolution range)	90.3 (30.00-2.90) 90.3 (29.58-2.90)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.73 (at 2.90Å)	Xtriage
Refinement program	BUSTER 2.10.2	Depositor
R, R_{free}	0.216 , 0.259 0.243 , 0.301	Depositor DCC
R_{free} test set	906 reflections (4.91%)	wwPDB-VP
Wilson B-factor (Å^2)	75.5	Xtriage
Anisotropy	0.189	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.30 , 78.7	EDS
L-test for twinning[2]	$< |L| > = 0.46$, $< L^2 > = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	5877	wwPDB-VP
Average B, all atoms (Å^2)	100.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.02% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]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.

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: 8EM

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	0.47	0/3052	0.61	0/4154
1	B	0.46	0/2860	0.58	0/3908
All	All	0.46	0/5912	0.60	0/8062

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	2983	0	2990	22	0
1	B	2800	0	2751	13	0
2	A	47	0	0	1	0
2	B	47	0	0	2	0
All	All	5877	0	5741	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:A:186:THR:HG22	1:A:193:ASN:OD1	2.02	0.60
1:A:49:ILE:O	1:A:53:ILE:HG23	2.03	0.59
1:A:164:VAL:HG13	1:A:165:PRO:HD3	1.86	0.57
1:A:1091:ALA:HA	1:A:1094:LEU:HD12	1.89	0.55
1:B:1091:ALA:HA	1:B:1094:LEU:HD12	1.89	0.55
1:A:54:ILE:HG12	1:A:305:LEU:HD11	1.92	0.52
1:A:1045:PRO:HG2	1:A:1048:LEU:HD12	1.91	0.51
1:A:244:TYR:HD2	1:A:247:ASN:H	1.57	0.51
1:B:54:ILE:HG12	1:B:305:LEU:HD11	1.94	0.49
1:A:88:VAL:HG13	1:B:173:LEU:HD23	1.95	0.49
2:A:1501:8EM:C31	2:A:1501:8EM:C23	2.93	0.47
1:A:1022:ASN:HD22	1:A:1024:ALA:HB3	1.81	0.46
1:B:44:LEU:HB2	1:B:47:ILE:HD12	1.97	0.46
1:A:60:LEU:O	1:A:63:ILE:HG13	2.16	0.45
1:B:1022:ASN:HD22	1:B:1024:ALA:HB3	1.81	0.45
1:A:44:LEU:HB2	1:A:47:ILE:HD12	1.98	0.45
1:B:79:SER:O	1:B:83:ILE:HG12	2.17	0.44
1:A:62:ASN:HB2	1:A:91:LEU:HD13	1.99	0.44
2:B:1501:8EM:C23	2:B:1501:8EM:C31	2.94	0.44
1:A:164:VAL:HG13	1:A:165:PRO:CD	2.48	0.44
1:A:109:ASP:HB2	1:A:192:VAL:HG22	1.98	0.44
1:A:160:ALA:HA	1:A:163:ILE:HD12	1.99	0.44
1:B:281:LEU:HB3	1:B:286:VAL:HB	2.01	0.43
1:A:40:SER:HB3	1:A:107:ARG:HB3	2.01	0.43
1:A:281:LEU:HB3	1:A:286:VAL:HB	2.01	0.43
1:B:68:LEU:HD11	1:B:319:CYS:SG	2.60	0.42
1:B:182:ARG:HG2	1:B:197:MET:SD	2.59	0.42
1:B:223:PRO:O	1:B:227:ILE:HG12	2.19	0.42
1:A:45:ASP:O	1:A:48:PRO:HD2	2.20	0.42
1:A:201:PRO:HA	1:A:204:TYR:HB2	2.02	0.42
1:A:91:LEU:HD23	1:B:173:LEU:HD11	2.02	0.41
1:A:68:LEU:HD11	1:A:319:CYS:SG	2.61	0.41
1:B:178:THR:HG23	2:B:1501:8EM:N5	2.36	0.41
1:A:223:PRO:O	1:A:227:ILE:HG12	2.21	0.41
1:B:45:ASP:O	1:B:48:PRO:HD2	2.21	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	375/411 (91%)	364 (97%)	11 (3%)	0	100	100
1	B	362/411 (88%)	353 (98%)	9 (2%)	0	100	100
All	All	737/822 (90%)	717 (97%)	20 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	312/354 (88%)	294 (94%)	18 (6%)	20	50
1	B	286/354 (81%)	265 (93%)	21 (7%)	14	38
All	All	598/708 (84%)	559 (94%)	39 (6%)	17	45

All (39) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1003	LEU
1	A	1012	ASP
1	A	1018	GLU
1	A	1028	ASP
1	A	1068	LEU
1	A	1098	ARG
1	A	53	ILE
1	A	54	ILE

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Mol	Chain	Res	Type
1	A	59	PHE
1	A	66	VAL
1	A	70	CYS
1	A	78	VAL
1	A	146	VAL
1	A	164	VAL
1	A	166	LEU
1	A	192	VAL
1	A	224	LEU
1	A	327	GLN
1	B	1012	ASP
1	B	1018	GLU
1	B	1028	ASP
1	B	1068	LEU
1	B	1101	TYR
1	B	45	ASP
1	B	54	ILE
1	B	59	PHE
1	B	70	CYS
1	B	109	ASP
1	B	146	VAL
1	B	148	TYR
1	B	166	LEU
1	B	224	LEU
1	B	229	THR
1	B	239	LEU
1	B	242	ASN
1	B	244	TYR
1	B	246	LYS
1	B	247	ASN
1	B	251	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	1022	ASN
1	A	1103	GLN
1	A	85	ASN
1	A	127	ASN
1	B	1022	ASN
1	B	85	ASN
1	B	127	ASN

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 monosaccharides in this entry.

5.6 Ligand geometry ⓘ

2 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	#$|Z| > 2$	Counts	RMSZ	#$|Z| > 2$
2	8EM	B	1501	-	50,53,53	0.72	2 (4%)	68,74,74	0.88	2 (2%)
2	8EM	A	1501	-	50,53,53	0.74	2 (4%)	68,74,74	0.82	2 (2%)

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	8EM	B	1501	-	-	4/30/31/31	0/7/7/7
2	8EM	A	1501	-	-	4/30/31/31	0/7/7/7

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1501	8EM	C34-C33	-3.80	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1501	8EM	C34-C33	-3.68	1.34	1.39
2	B	1501	8EM	C32-C33	-2.09	1.49	1.51
2	A	1501	8EM	C32-C33	-2.07	1.49	1.51

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	1501	8EM	C3-C2-N	-3.79	115.01	119.71
2	A	1501	8EM	C3-C2-N	-3.14	115.82	119.71
2	B	1501	8EM	C32-C33-C34	2.75	133.54	129.06
2	A	1501	8EM	C32-C33-C34	2.70	133.46	129.06

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	1501	8EM	C15-C13-C14-N5
2	B	1501	8EM	N6-C25-C26-C31
2	A	1501	8EM	N6-C25-C26-C31
2	A	1501	8EM	O1-C25-C26-C31
2	B	1501	8EM	O1-C25-C26-C31
2	A	1501	8EM	C15-C13-C14-N5
2	A	1501	8EM	C15-C13-C14-N2
2	B	1501	8EM	C15-C13-C14-N2

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	1501	8EM	2	0
2	A	1501	8EM	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.

Ligand 8EM B 1501

Bond lengths	Bond angles
Torsions	Rings

Ligand 8EM A 1501

Bond lengths

Bond angles

Torsions

Rings
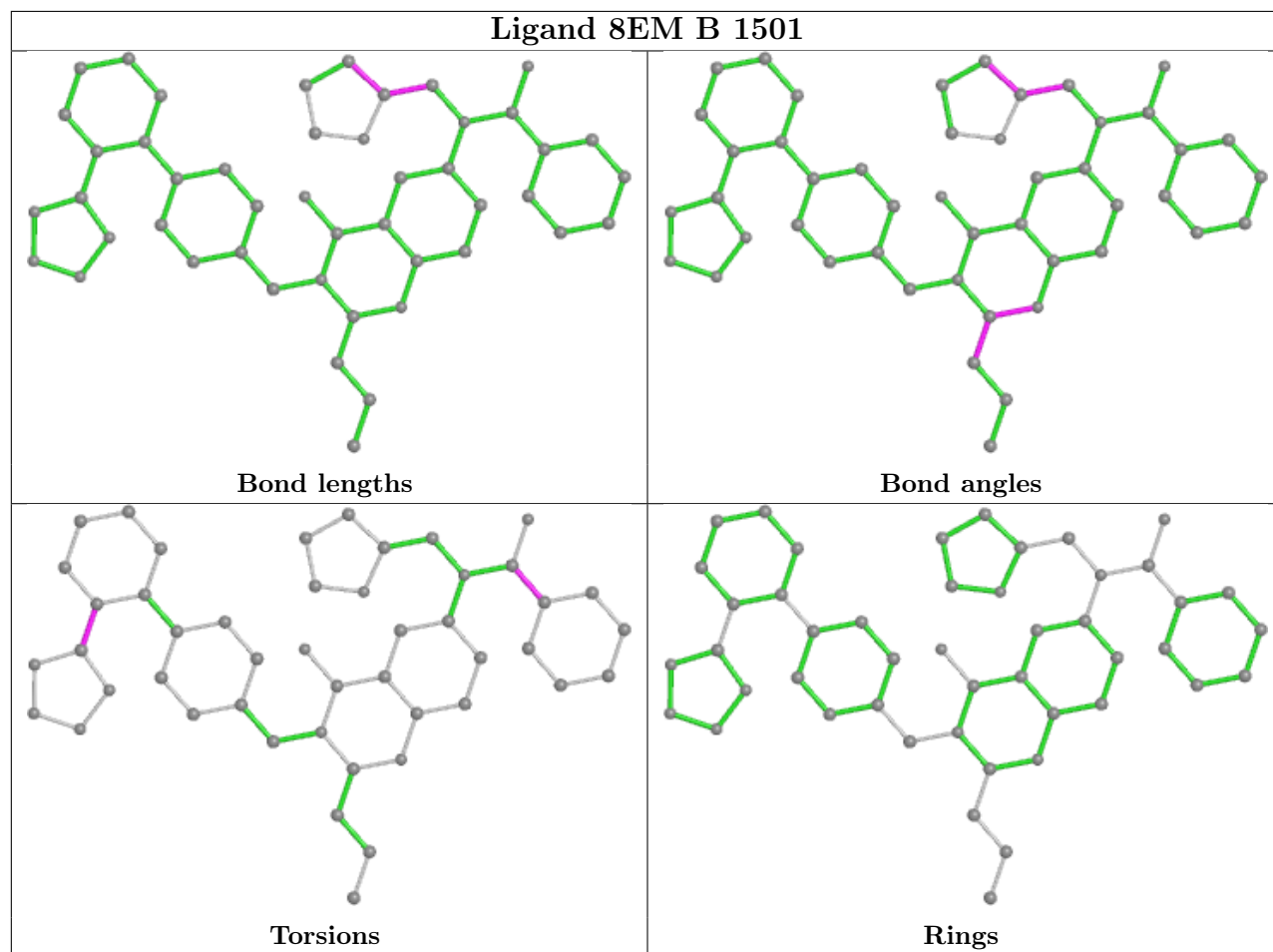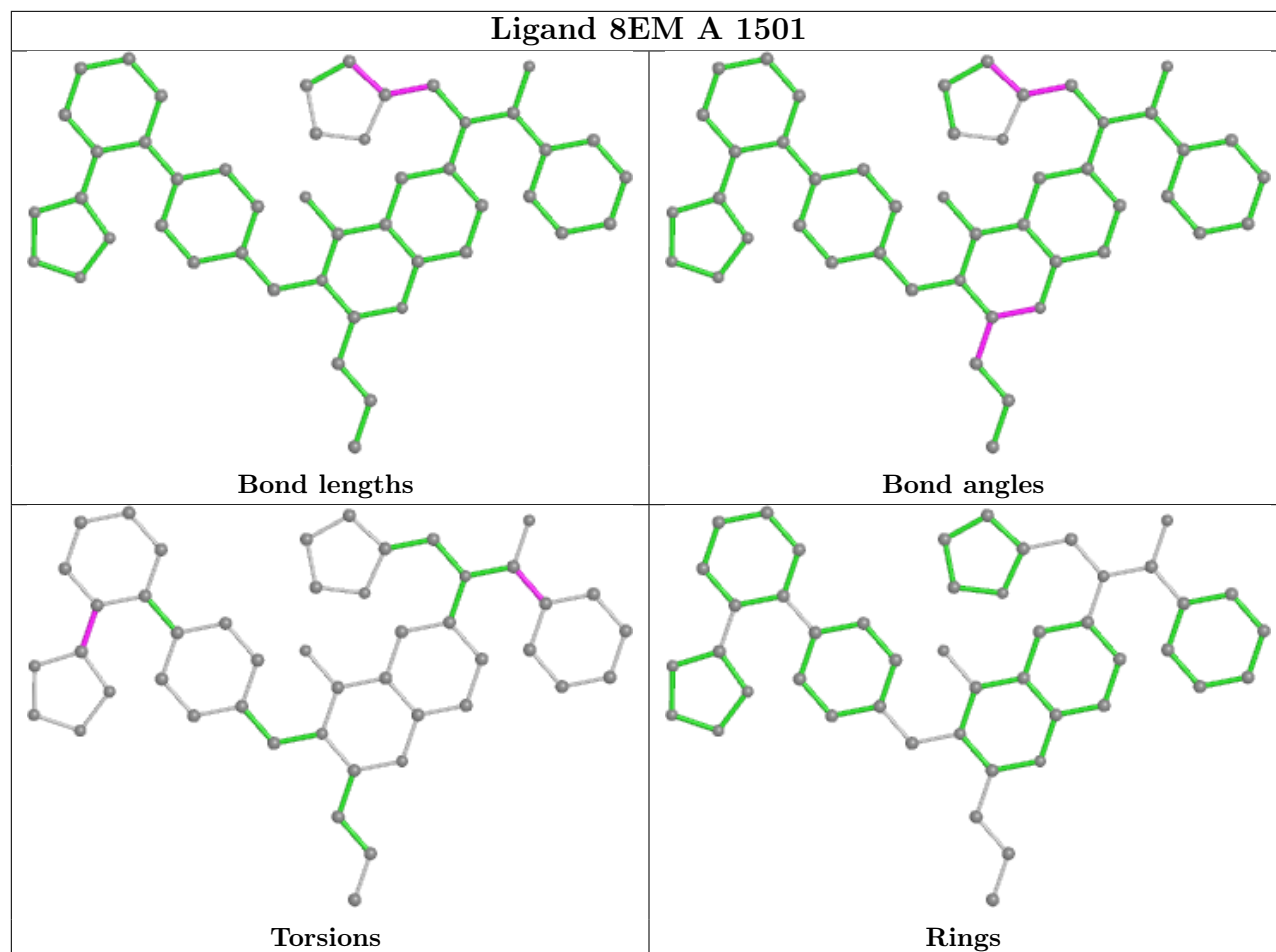
5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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	385/411 (93%)	-0.04	14 (3%)	42	37	47, 75, 135, 189	0
1	B	372/411 (90%)	0.54	46 (12%)	4	3	63, 116, 181, 225	0
All	All	757/822 (92%)	0.25	60 (7%)	12	10	47, 94, 171, 225	0

All (60) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	1053	PRO	11.0
1	B	1045	PRO	7.3
1	B	329	LEU	6.9
1	B	1004	GLU	6.3
1	B	290	CYS	5.6
1	B	295	VAL	5.0
1	B	1050	ASP	4.9
1	B	68	LEU	4.6
1	B	1005	ASP	4.5
1	B	1057	GLU	4.5
1	A	1050	ASP	4.4
1	B	293	ILE	4.3
1	B	45	ASP	4.1
1	B	1054	ASP	4.0
1	B	1019	LYS	3.9
1	A	1063	HIS	3.8
1	B	1007	TRP	3.7
1	B	331	SER	3.7
1	A	77	LYS	3.5
1	B	1002	ASP	3.5
1	B	1003	LEU	3.4
1	B	1055	SER	3.4
1	A	78	VAL	3.4
1	B	1061	PHE	3.3

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Mol	Chain	Res	Type	RSRZ
1	A	1054	ASP	3.2
1	A	1053	PRO	3.2
1	B	330	ARG	3.1
1	B	292	VAL	3.1
1	B	298	LEU	3.1
1	A	1051	LYS	3.0
1	B	1006	ASN	3.0
1	B	1048	LEU	2.9
1	B	252	ASP	2.9
1	B	1092	GLU	2.9
1	B	1020	ALA	2.9
1	B	1052	SER	2.8
1	A	241	THR	2.8
1	A	1052	SER	2.8
1	B	291	GLU	2.8
1	B	1056	PRO	2.8
1	A	73	LYS	2.7
1	B	1058	MET	2.7
1	B	281	LEU	2.6
1	B	1046	PRO	2.6
1	B	255	LEU	2.5
1	B	287	ILE	2.5
1	B	1099	ASN	2.5
1	B	78	VAL	2.5
1	B	1101	TYR	2.4
1	B	150	PHE	2.4
1	B	288	ASN	2.4
1	A	71	CYS	2.4
1	B	1015	LYS	2.3
1	B	249	ILE	2.2
1	A	245	GLY	2.2
1	B	1044	THR	2.1
1	A	1019	LYS	2.1
1	A	1021	ASP	2.1
1	B	289	SER	2.1
1	B	111	LEU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.3 Carbohydrates ⓘ
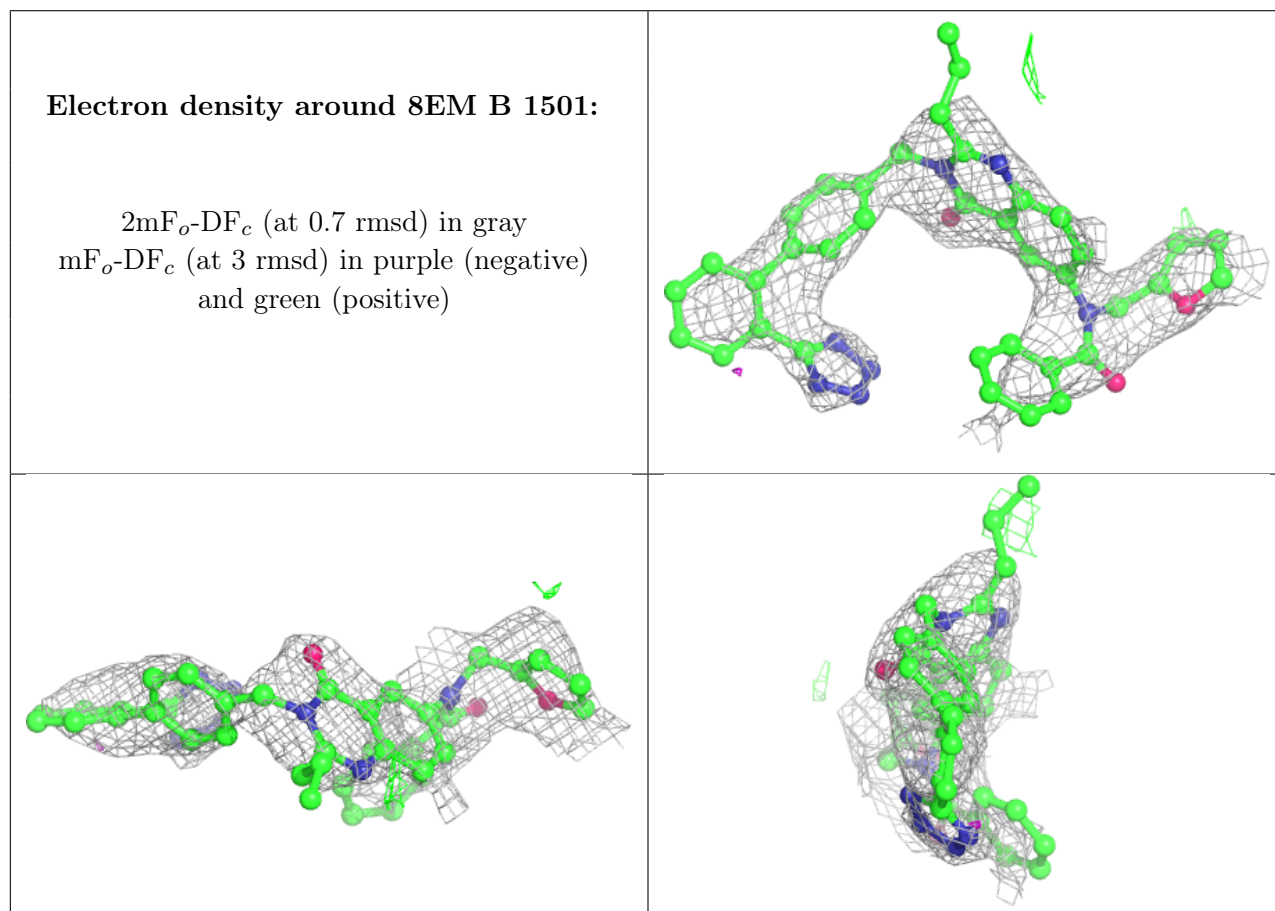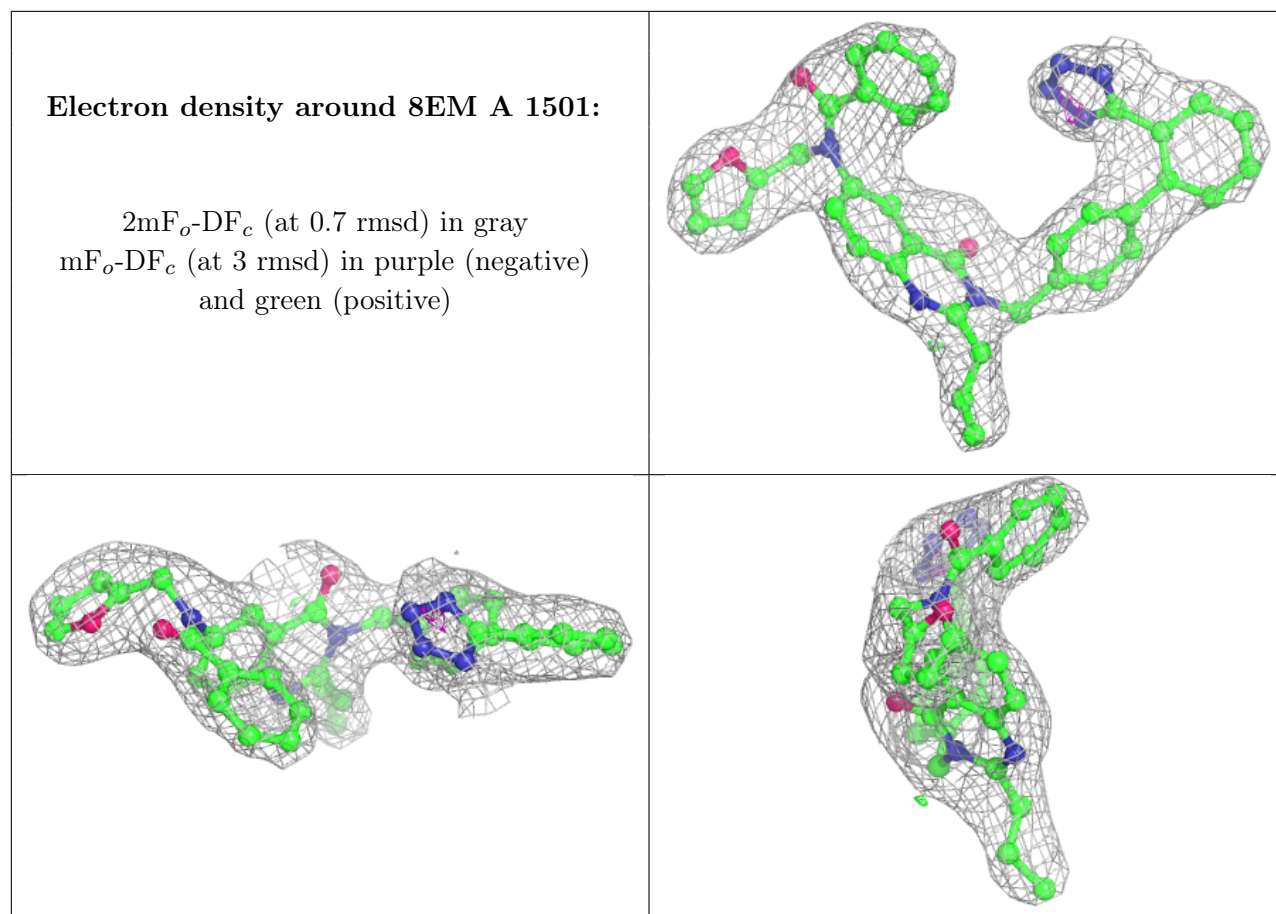
There are no monosaccharides in this entry.

6.4 Ligands ⓘ

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(Å^2)	Q<0.9
2	8EM	B	1501	47/47	0.91	0.32	101,110,125,127	0
2	8EM	A	1501	47/47	0.95	0.16	46,63,75,77	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 8EM B 1501:

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

Electron density around 8EM A 1501:

$2mF_o$-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.