



Full wwPDB X-ray Structure Validation Report ⓘ

May 27, 2024 – 08:59 PM EDT

PDB ID : 6ME9
Title : XFEL crystal structure of human melatonin receptor MT2 in complex with ramelteon
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Deposited on : 2018-09-05
Resolution : 3.30 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36.2
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)

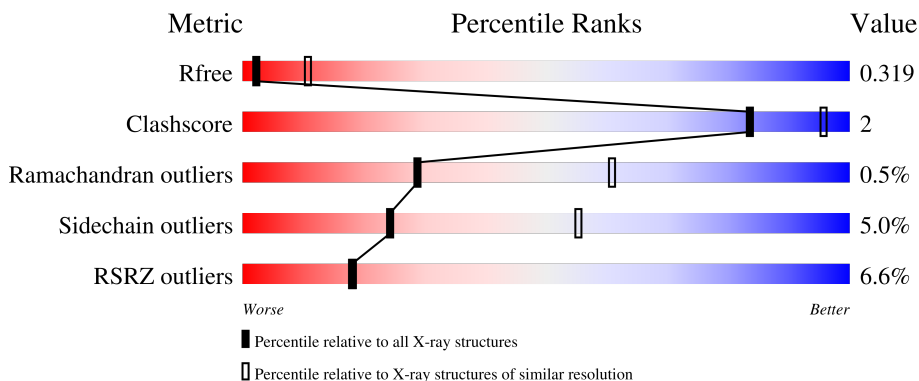
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.30 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}	130704	1149 (3.34-3.26)
Clashscore	141614	1205 (3.34-3.26)
Ramachandran outliers	138981	1183 (3.34-3.26)
Sidechain outliers	138945	1182 (3.34-3.26)
RSRZ outliers	127900	1115 (3.34-3.26)

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	460	 4% 88% 8% ..
1	B	460	 8% 78% 8% 14%

Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
 Validation Pipeline (wwPDB-VP) : 2.36.2

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 6004 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,Melatonin receptor type 1B,Rubredoxin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	448	3227	2104	521	584	18	0	0	0
1	B	395	2738	1791	449	486	12	0	0	0

There are 32 discrepancies between the modelled and reference sequences:

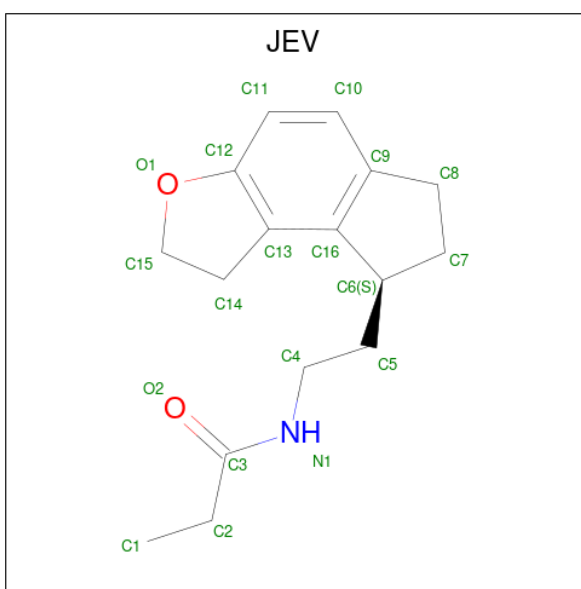
Chain	Residue	Modelled	Actual	Comment	Reference
A	2007	TRP	MET	engineered mutation	UNP P0ABE7
A	2102	ILE	HIS	engineered mutation	UNP P0ABE7
A	2106	LEU	ARG	engineered mutation	UNP P0ABE7
A	31	GLY	-	linker	UNP P0ABE7
A	32	ASP	-	linker	UNP P0ABE7
A	33	GLY	-	linker	UNP P0ABE7
A	34	ALA	-	linker	UNP P0ABE7
A	37	SER	PRO	engineered mutation	UNP P49286
A	86	ASN	ASP	engineered mutation	UNP P49286
A	108	PHE	LEU	engineered mutation	UNP P49286
A	129	TRP	PHE	engineered mutation	UNP P49286
A	137	ASP	ASN	engineered mutation	UNP P49286
A	140	LEU	CYS	engineered mutation	UNP P49286
A	264	PHE	TRP	engineered mutation	UNP P49286
A	305	PRO	ALA	engineered mutation	UNP P49286
A	312	ASP	ASN	engineered mutation	UNP P49286
B	2007	TRP	MET	engineered mutation	UNP P0ABE7
B	2102	ILE	HIS	engineered mutation	UNP P0ABE7
B	2106	LEU	ARG	engineered mutation	UNP P0ABE7
B	31	GLY	-	linker	UNP P0ABE7
B	32	ASP	-	linker	UNP P0ABE7
B	33	GLY	-	linker	UNP P0ABE7
B	34	ALA	-	linker	UNP P0ABE7
B	37	SER	PRO	engineered mutation	UNP P49286
B	86	ASN	ASP	engineered mutation	UNP P49286

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Chain	Residue	Modelled	Actual	Comment	Reference
B	108	PHE	LEU	engineered mutation	UNP P49286
B	129	TRP	PHE	engineered mutation	UNP P49286
B	137	ASP	ASN	engineered mutation	UNP P49286
B	140	LEU	CYS	engineered mutation	UNP P49286
B	264	PHE	TRP	engineered mutation	UNP P49286
B	305	PRO	ALA	engineered mutation	UNP P49286
B	312	ASP	ASN	engineered mutation	UNP P49286

- Molecule 2 is N-{2-[(8S)-1,6,7,8-tetrahydro-2H-indeno[5,4-b]furan-8-yl]ethyl}propanamide (three-letter code: JEV) (formula: C₁₆H₂₁NO₂).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
2	A	1	19	16	1	2	0	0
2	B	1	19	16	1	2	0	0

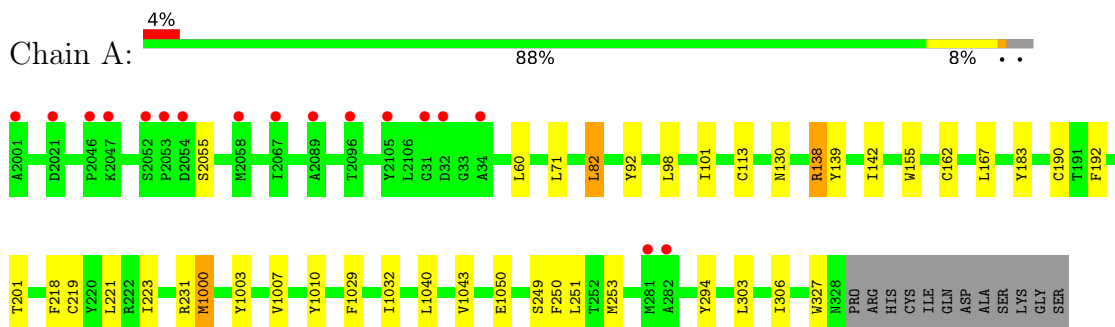
- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

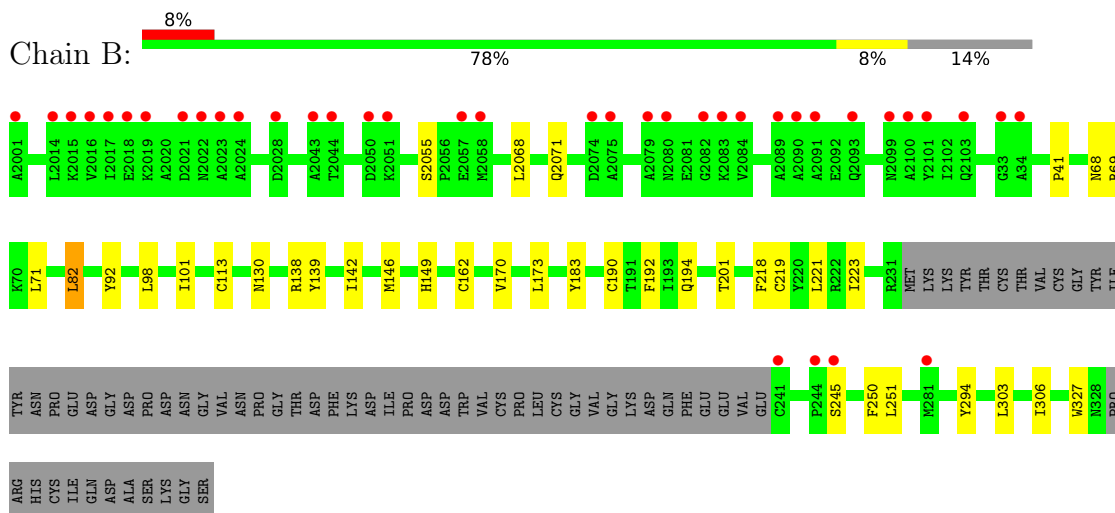
3 Residue-property plots [i](#)

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: Soluble cytochrome b562,Melatonin receptor type 1B,Rubredoxin



- Molecule 1: Soluble cytochrome b562,Melatonin receptor type 1B,Rubredoxin



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	69.40Å 145.70Å 77.20Å 90.00° 106.20° 90.00°	Depositor
Resolution (Å)	22.00 – 3.30 21.96 – 3.30	Depositor EDS
% Data completeness (in resolution range)	100.0 (22.00-3.30) 100.0 (21.96-3.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.18 (at 3.30Å)	Xtrriage
Refinement program	BUSTER 2.10.2	Depositor
R, R_{free}	0.248 , 0.270 0.292 , 0.319	Depositor DCC
R_{free} test set	1108 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	106.4	Xtrriage
Anisotropy	0.404	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 110.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.25$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	6004	wwPDB-VP
Average B, all atoms (Å ²)	136.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.08% 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: JEV, ZN

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	0.44	0/3305	0.56	0/4556
1	B	0.45	0/2805	0.58	0/3875
All	All	0.45	0/6110	0.57	0/8431

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	A	0	1
1	B	0	1
All	All	0	2

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	2055	SER	Mainchain
1	B	2055	SER	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	3227	0	2976	14	0
1	B	2738	0	2445	14	0
2	A	19	0	0	0	0
2	B	19	0	0	0	0
3	A	1	0	0	0	0
All	All	6004	0	5421	27	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 2.

All (27) 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:155:TRP:HB2	1:B:41:PRO:HG3	1.77	0.66
1:A:139:TYR:HA	1:A:223:ILE:HD11	1.83	0.60
1:B:139:TYR:HA	1:B:223:ILE:HD11	1.82	0.60
1:B:98:LEU:HA	1:B:101:ILE:HD12	1.85	0.59
1:A:98:LEU:HA	1:A:101:ILE:HD12	1.86	0.57
1:A:1010:TYR:HB2	1:A:1040:LEU:HD12	1.92	0.51
1:A:192:PHE:CZ	1:A:201:THR:HG22	2.48	0.49
1:B:192:PHE:CZ	1:B:201:THR:HG22	2.48	0.48
1:B:138:ARG:HH11	1:B:138:ARG:HA	1.80	0.47
1:A:303:LEU:HA	1:A:306:ILE:HD12	1.96	0.47
1:B:219:CYS:O	1:B:223:ILE:HG12	2.16	0.46
1:B:142:ILE:HG21	1:B:223:ILE:HG23	1.96	0.46
1:B:303:LEU:HA	1:B:306:ILE:HD12	1.97	0.46
1:A:249:SER:O	1:A:253:MET:HG2	2.16	0.46
1:B:82:LEU:HD12	1:B:130:ASN:HB3	1.97	0.46
1:A:1007:VAL:HG21	1:A:1043:VAL:HG21	1.98	0.46
1:A:219:CYS:O	1:A:223:ILE:HG12	2.16	0.45
1:A:138:ARG:O	1:A:142:ILE:HD12	2.18	0.44
1:A:82:LEU:HD12	1:A:130:ASN:HB3	1.98	0.44
1:B:68:ASN:HB3	1:B:69:ARG:H	1.60	0.44
1:B:183:TYR:HA	1:B:190:CYS:HA	1.99	0.44
1:A:1003:TYR:HA	1:A:1050:GLU:HA	2.01	0.42
1:B:146:MET:HA	1:B:149:HIS:CE1	2.54	0.42
1:A:183:TYR:HA	1:A:190:CYS:HA	2.01	0.42
1:B:194:GLN:HA	1:B:201:THR:HG21	2.03	0.41
1:B:170:VAL:HA	1:B:173:LEU:HD12	2.02	0.41
1:A:1029:PHE:HA	1:A:1032:ILE:HD12	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	446/460 (97%)	422 (95%)	21 (5%)	3 (1%)	22	54
1	B	391/460 (85%)	373 (95%)	17 (4%)	1 (0%)	41	71
All	All	837/920 (91%)	795 (95%)	38 (4%)	4 (0%)	29	61

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1000	MET
1	A	92	TYR
1	A	231	ARG
1	B	92	TYR

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	302/391 (77%)	288 (95%)	14 (5%)	27	58
1	B	233/391 (60%)	220 (94%)	13 (6%)	21	52
All	All	535/782 (68%)	508 (95%)	27 (5%)	24	55

All (27) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	60	LEU
1	A	71	LEU

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Mol	Chain	Res	Type
1	A	82	LEU
1	A	113	CYS
1	A	138	ARG
1	A	162	CYS
1	A	167	LEU
1	A	218	PHE
1	A	221	LEU
1	A	1000	MET
1	A	250	PHE
1	A	251	LEU
1	A	294	TYR
1	A	327	TRP
1	B	2068	LEU
1	B	2071	GLN
1	B	71	LEU
1	B	82	LEU
1	B	113	CYS
1	B	162	CYS
1	B	218	PHE
1	B	221	LEU
1	B	245	SER
1	B	250	PHE
1	B	251	LEU
1	B	294	TYR
1	B	327	TRP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	149	HIS
1	B	175	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](#)

Of 3 ligands modelled in this entry, 1 is monoatomic - leaving 2 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		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	JEV	B	2201	-	21,21,21	1.64	1 (4%)	21,29,29	1.80	4 (19%)
2	JEV	A	2201	-	21,21,21	1.64	1 (4%)	21,29,29	1.61	3 (14%)

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	JEV	B	2201	-	-	3/8/23/23	0/3/3/3
2	JEV	A	2201	-	-	3/8/23/23	0/3/3/3

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	2201	JEV	C8-C9	-7.03	1.40	1.51
2	B	2201	JEV	C8-C9	-6.91	1.40	1.51

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2201	JEV	C11-C12-C13	-4.41	118.48	123.20
2	A	2201	JEV	C11-C12-C13	-4.40	118.49	123.20
2	B	2201	JEV	C7-C8-C9	4.19	107.38	103.31
2	A	2201	JEV	C7-C8-C9	3.83	107.03	103.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2201	JEV	O1-C15-C14	-3.10	104.59	107.92
2	A	2201	JEV	O1-C15-C14	-2.43	105.30	107.92
2	B	2201	JEV	C14-C13-C12	-2.17	105.61	107.67

There are no chirality outliers.

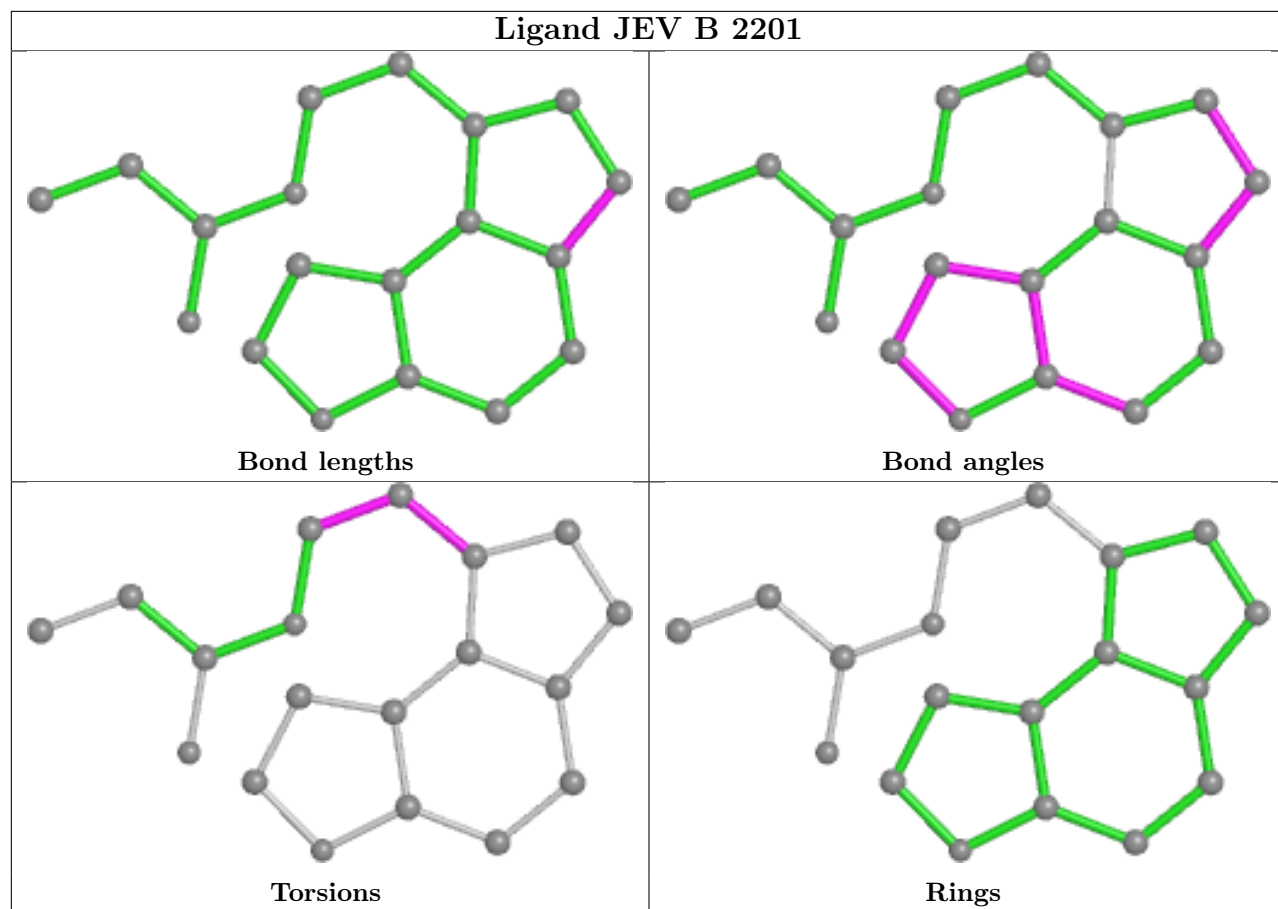
All (6) torsion outliers are listed below:

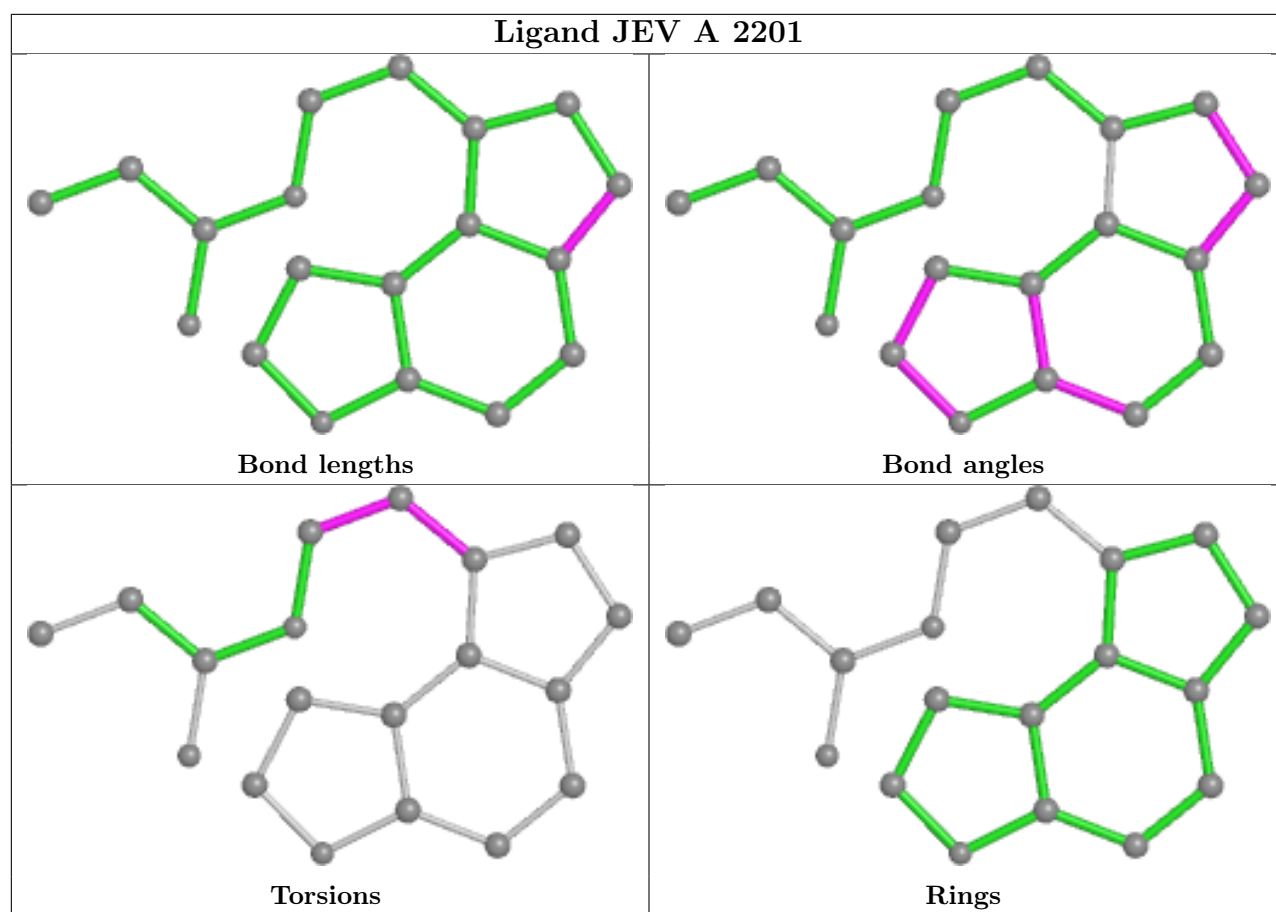
Mol	Chain	Res	Type	Atoms
2	A	2201	JEV	N1-C4-C5-C6
2	A	2201	JEV	C4-C5-C6-C7
2	A	2201	JEV	C4-C5-C6-C16
2	B	2201	JEV	N1-C4-C5-C6
2	B	2201	JEV	C4-C5-C6-C7
2	B	2201	JEV	C4-C5-C6-C16

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	448/460 (97%)	-0.05	17 (3%) 40 37	80, 120, 201, 225	0
1	B	395/460 (85%)	0.27	39 (9%) 7 7	85, 126, 260, 268	0
All	All	843/920 (91%)	0.10	56 (6%) 18 18	80, 122, 254, 268	0

All (56) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	2050	ASP	8.8
1	B	2023	ALA	8.0
1	A	2001	ALA	7.1
1	B	2018	GLU	6.4
1	B	2022	ASN	5.6
1	A	2053	PRO	5.3
1	B	2001	ALA	4.9
1	A	31	GLY	4.8
1	B	2017	ILE	4.6
1	B	2074	ASP	4.6
1	B	2057	GLU	4.5
1	B	2016	VAL	4.1
1	B	2093	GLN	4.0
1	B	2100	ALA	3.9
1	B	2091	ALA	3.9
1	B	2082	GLY	3.8
1	A	2096	THR	3.7
1	A	2047	LYS	3.7
1	B	2099	ASN	3.5
1	B	2015	LYS	3.5
1	B	2080	ASN	3.4
1	B	2083	LYS	3.3
1	B	2021	ASP	3.2
1	B	2019	LYS	3.2

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Mol	Chain	Res	Type	RSRZ
1	B	2089	ALA	3.2
1	A	2105	TYR	3.2
1	B	2028	ASP	3.1
1	B	2044	THR	3.1
1	B	241	CYS	2.9
1	B	2101	TYR	2.9
1	B	2079	ALA	2.9
1	B	34	ALA	2.9
1	B	2075	ALA	2.8
1	A	2052	SER	2.8
1	B	2014	LEU	2.7
1	A	2058	MET	2.7
1	B	2090	ALA	2.7
1	A	32	ASP	2.6
1	A	2067	ILE	2.6
1	B	281	MET	2.5
1	B	2058	MET	2.4
1	A	2046	PRO	2.4
1	A	2021	ASP	2.4
1	B	33	GLY	2.3
1	B	2024	ALA	2.3
1	B	2084	VAL	2.3
1	A	281	MET	2.2
1	B	2051	LYS	2.2
1	A	282	ALA	2.2
1	B	2043	ALA	2.1
1	B	244	PRO	2.1
1	B	245	SER	2.1
1	A	2089	ALA	2.0
1	B	2103	GLN	2.0
1	A	2054	ASP	2.0
1	A	34	ALA	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](#)

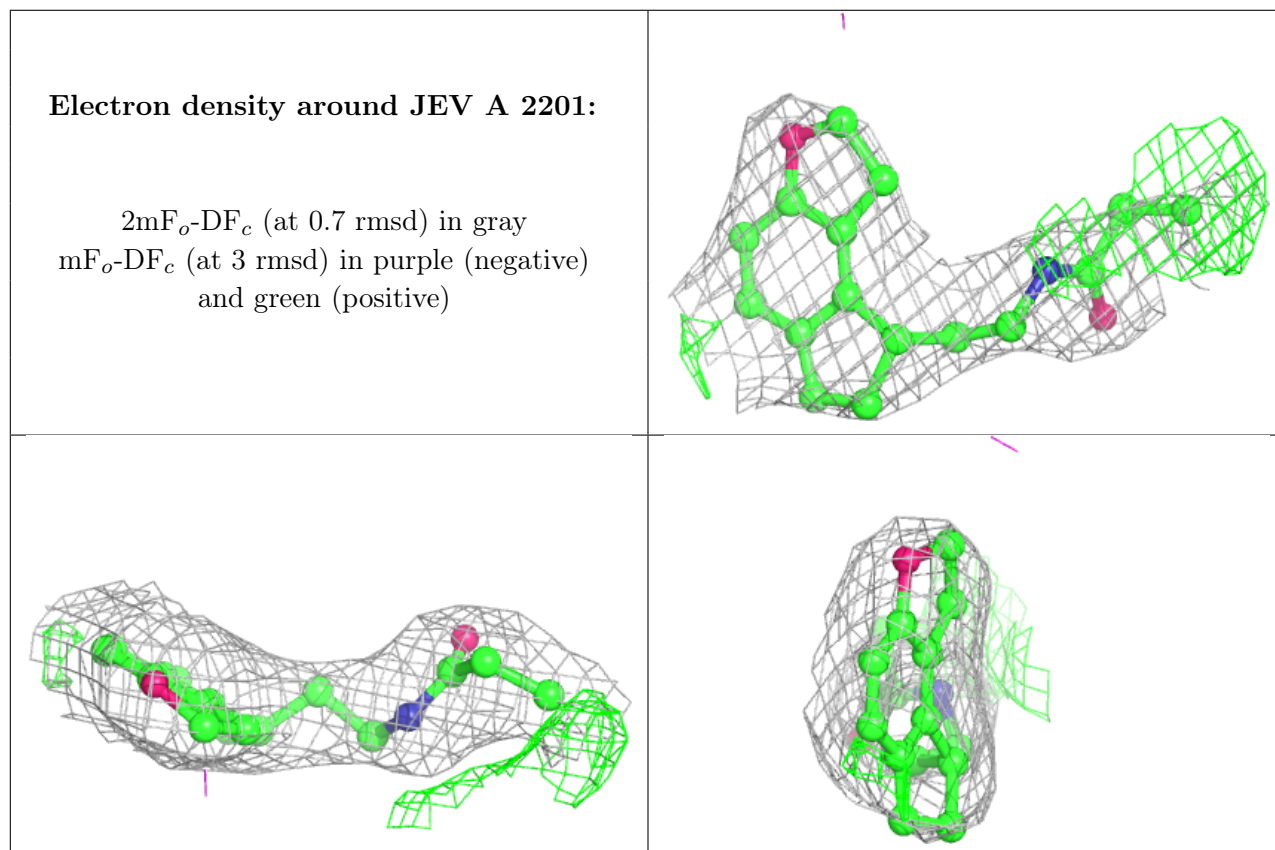
There are no monosaccharides in this entry.

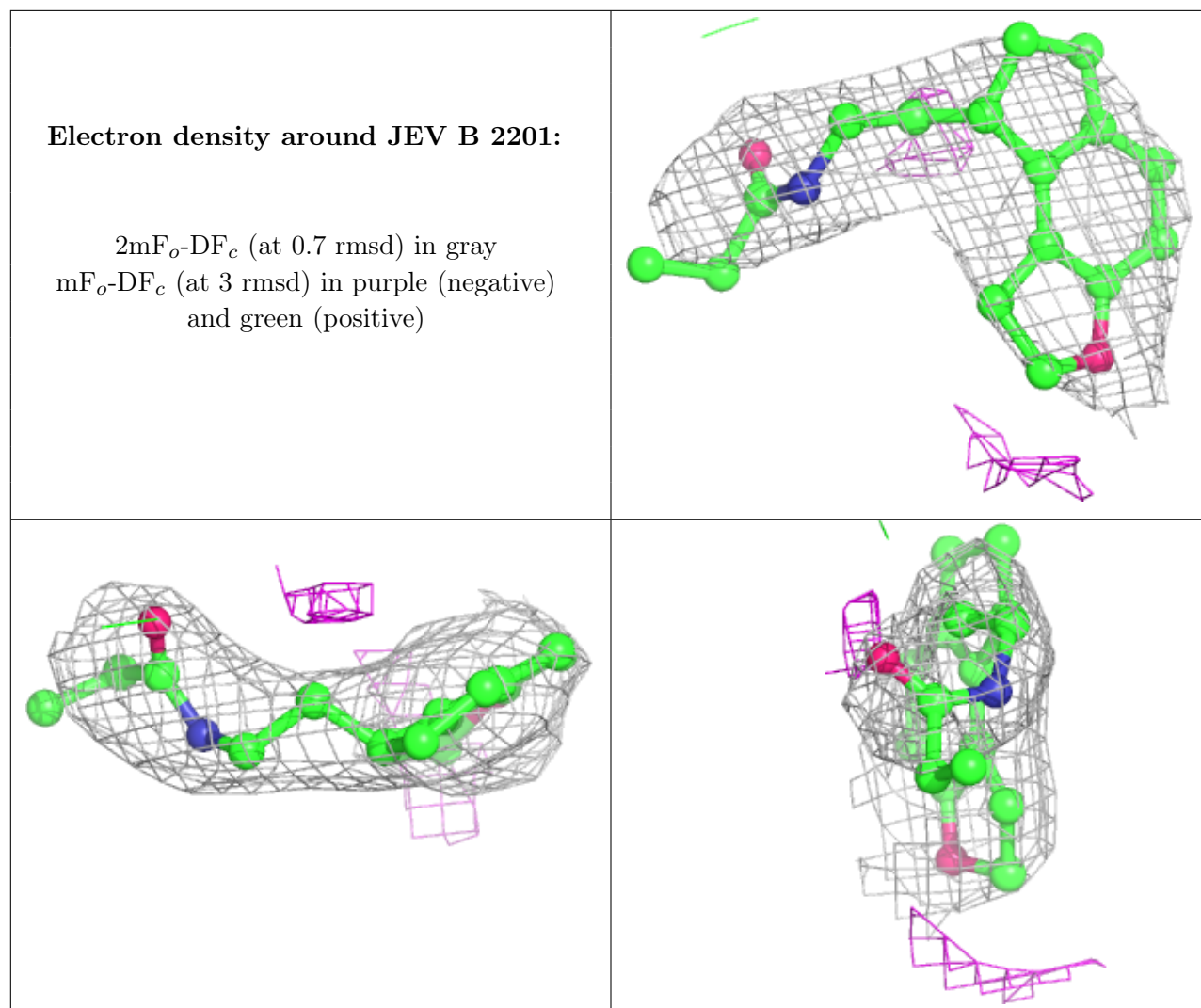
6.4 Ligands [i](#)

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, 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	JEV	A	2201	19/19	0.90	0.30	93,94,96,96	0
2	JEV	B	2201	19/19	0.91	0.26	103,105,106,107	0
3	ZN	A	2202	1/1	1.00	0.06	117,117,117,117	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.