Full wwPDB X-ray Structure Validation Report ⓘ

Dec 9, 2025 – 03:16 pm GMT

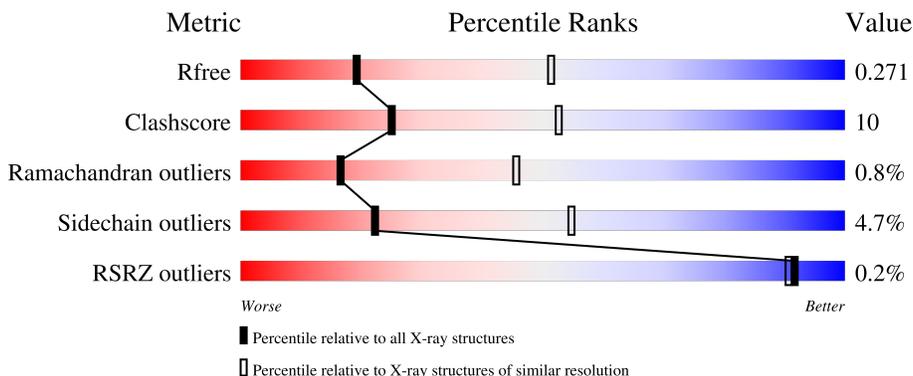|		
PDB ID	:	9QZL / pdb_00009qzl
Title	:	Structure of NONO bound to (R)-SKBG-1 in P43212
Authors	:	Fribourg, S.
Deposited on	:	2025-04-23
Resolution	:	2.90 Å(reported)

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		0.271
Clashscore		10
Ramachandran outliers		0.8%
Sidechain outliers		4.7%
RSRZ outliers		0.2%

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}	164625	2335 (2.90-2.90)
Clashscore	180529	2564 (2.90-2.90)
Ramachandran outliers	177936	2514 (2.90-2.90)
Sidechain outliers	177891	2516 (2.90-2.90)
RSRZ outliers	164620	2337 (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	260	63% 27% • 7%
1	B	260	71% 22% 7%

WORLDWIDE
wwPDB
PROTEIN DATA BANK
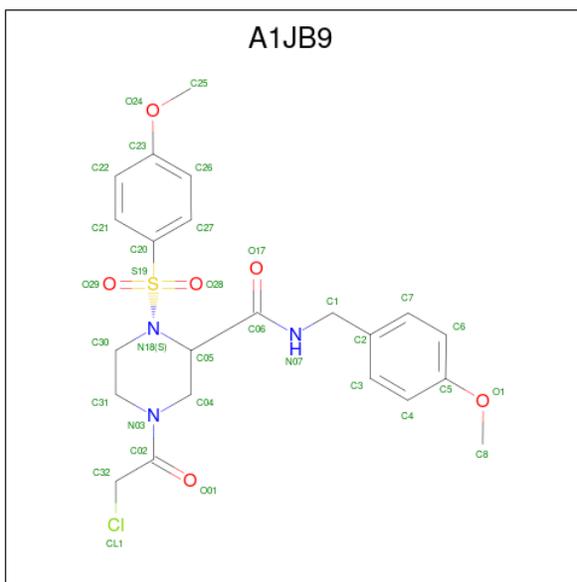
2 Entry composition ⓘ

There are 2 unique types of molecules in this entry. The entry contains 3995 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 Non-POU domain-containing octamer-binding protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	241	Total	C	N	O	S	0	0	0
			1958	1236	347	366	9			
1	B	242	Total	C	N	O	S	0	1	0
			1973	1245	352	369	7			

- Molecule 2 is 4-(2-chloranylethanoyl)- {N}-[(4-methoxyphenyl)methyl]-1-(4-methoxyphenyl)sulfonyl-piperazine-2-carboxamide (CCD ID: A1JB9) (formula: $C_{22}H_{26}ClN_3O_6S$) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	S	0	0
			32	22	3	6	1		
2	B	1	Total	C	N	O	S	0	0
			32	22	3	6	1		

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: Non-POU domain-containing octamer-binding protein

Chain A:

- Molecule 1: Non-POU domain-containing octamer-binding protein

Chain B:

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α, β, γ	87.07Å 87.07Å 138.59Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.87 – 2.90 19.87 – 2.90	Depositor EDS
% Data completeness (in resolution range)	100.0 (19.87-2.90) 99.6 (19.87-2.90)	Depositor EDS
R_{merge}	0.35	Depositor
R_{sym}	(Not available)	Depositor
$<I/\sigma(I)>$ [1]	2.24 (at 2.88Å)	Xtriage
Refinement program	PHENIX 1.21_5207	Depositor
R, R_{free}	0.203 , 0.271 0.203 , 0.271	Depositor DCC
R_{free} test set	618 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å^2)	32.2	Xtriage
Anisotropy	0.119	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.27 , 27.9	EDS
L-test for twinning [2]	$<|L|> = 0.40$, $<L^2> = 0.22$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.89	EDS
Total number of atoms	3995	wwPDB-VP
Average B, all atoms (Å^2)	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.08% 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 ⓘ

5.1   Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: A1JB9

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	0.42	0/1994	0.58	0/2675
1	B	0.43	1/2010 (0.0%)	0.56	0/2698
All	All	0.42	1/4004 (0.0%)	0.57	0/5373

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	239	LYS	CG-CD	5.00	1.67	1.52

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2   Too-close contacts ⓘ

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	1958	0	1962	50	4
1	B	1973	0	1969	35	4
2	A	32	0	0	1	0
2	B	32	0	0	1	0
All	All	3995	0	3931	76	4

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 10.

All (76) 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:184:ARG:HD3	1:A:186:ARG:HH21	1.41	0.84
1:A:238:GLU:OE2	1:A:251:ARG:NH2	2.12	0.76
1:A:205:LEU:HD23	1:A:224:VAL:HG12	1.70	0.74
1:A:271:TRP:CD1	1:A:275:ILE:HD11	2.30	0.67
1:A:156:PRO:HD2	1:A:159:VAL:HG21	1.79	0.63
1:A:270:ARG:HB3	1:B:296:LEU:HD11	1.81	0.63
1:A:274:LEU:HA	1:A:277:MET:HE3	1.81	0.63
1:A:270:ARG:HA	1:A:270:ARG:HE	1.65	0.62
1:A:97:TYR:HA	1:B:57:ILE:HD11	1.82	0.61
1:A:288:ASN:HA	1:A:291:GLU:HG2	1.83	0.61
1:A:73:ARG:O	1:A:119:ARG:NH1	2.34	0.60
1:A:283:ASP:O	1:A:287:ARG:HG2	2.03	0.59
1:B:184:ARG:HB2	1:B:186:ARG:HD3	1.86	0.58
1:B:81:LEU:HD13	1:B:85:ILE:HG21	1.86	0.57
1:B:145:CYS:HB2	2:B:401:A1JB9:O29	2.04	0.57
1:B:236:LEU:HD11	1:B:241:VAL:HG22	1.88	0.56
1:A:142:ARG:HD3	1:A:234:GLU:HG3	1.88	0.56
1:A:294:GLU:HA	1:A:297:GLU:HG3	1.88	0.55
1:A:84:ASP:OD1	1:A:84:ASP:N	2.34	0.54
1:A:253:GLN:HG3	1:B:217:THR:HG23	1.89	0.54
1:A:153:ARG:HH21	1:A:223:THR:HG21	1.73	0.54
1:B:262:SER:O	1:B:266:GLU:HG3	2.07	0.54
1:A:215:LEU:HD22	1:A:222:VAL:HG11	1.89	0.54
1:A:116:LEU:HD12	1:A:122:ALA:HA	1.90	0.53
1:B:76:LEU:HD21	1:B:122:ALA:HB1	1.91	0.52
1:A:103:VAL:HG22	1:A:114:ILE:HG13	1.93	0.51
1:B:140:ARG:HE	1:B:142:ARG:HG3	1.76	0.51
1:A:75:ARG:HB2	1:A:115:ARG:HG3	1.93	0.50
1:B:246:GLN:HA	1:B:249:LYS:HG3	1.93	0.50
1:A:165:GLU:O	1:A:169:SER:OG	2.22	0.49
1:A:142:ARG:CD	1:A:234:GLU:HG3	2.43	0.49
1:B:81:LEU:HD21	1:B:90:MET:HE1	1.94	0.49
1:A:217:THR:HG23	1:B:253:GLN:CG	2.42	0.49
1:A:87:GLU:O	1:A:91:ARG:HG3	2.13	0.49
1:A:287:ARG:HA	1:A:287:ARG:HD2	1.56	0.48
1:A:271:TRP:O	1:A:275:ILE:HG13	2.14	0.48
1:B:198:LYS:N	1:B:199:PRO:HD2	2.29	0.47
1:A:184:ARG:HD3	1:A:186:ARG:NH2	2.22	0.46
1:A:270:ARG:HD3	1:B:296:LEU:HD11	1.98	0.46
1:A:151:THR:HB	1:A:225:GLU:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:164:LEU:HD23	1:B:177:ALA:HB1	1.98	0.45
1:B:184:ARG:HB2	1:B:186:ARG:CD	2.46	0.45
1:A:117:GLU:HB3	1:A:121:LEU:HD12	1.99	0.45
1:A:149:SER:HB3	1:A:227:MET:HB3	1.97	0.45
1:A:217:THR:HG23	1:B:253:GLN:HG2	1.99	0.44
1:A:231:ASP:HB2	2:A:401:A1JB9:C23	2.47	0.44
1:A:272:LYS:HA	1:A:275:ILE:HD12	1.99	0.44
1:A:220:ARG:HG3	1:B:271:TRP:CD2	2.52	0.44
1:B:254:PRO:O	1:B:256:ARG:HD3	2.17	0.44
1:A:72:GLN:HB2	1:A:146:HIS:NE2	2.33	0.44
1:A:107:LYS:HB3	1:A:107:LYS:HE2	1.79	0.44
1:A:137:LYS:HE2	1:A:137:LYS:HB3	1.51	0.44
1:A:270:ARG:HA	1:A:270:ARG:NE	2.30	0.43
1:A:59:LEU:O	1:A:60:LYS:HB2	2.19	0.43
1:A:108:ASP:OD2	1:A:109:LYS:HG3	2.19	0.43
1:B:184:ARG:HD2	1:B:186:ARG:NH1	2.34	0.43
1:B:64:LYS:O	1:B:67:GLU:HG2	2.19	0.43
1:A:293:ARG:HH22	1:B:275:ILE:HD13	1.83	0.43
1:B:203:LYS:HG3	1:B:207:ARG:HH21	1.83	0.43
1:B:260:PRO:HA	1:B:265:TYR:CD2	2.54	0.42
1:B:265:TYR:O	1:B:269:MET:HG2	2.19	0.42
1:B:260:PRO:HA	1:B:265:TYR:CG	2.54	0.42
1:A:205:LEU:HD23	1:A:224:VAL:CG1	2.44	0.42
1:A:129:LEU:O	1:A:132:MET:HB2	2.20	0.42
1:B:148:ALA:HB1	1:B:195:PHE:HB2	2.02	0.42
1:B:142:ARG:NE	1:B:234:GLU:HG3	2.34	0.42
1:B:289:ILE:HG22	1:B:293:ARG:HD2	2.02	0.42
1:B:118:THR:HG22	1:B:120:THR:H	1.84	0.42
1:A:275:ILE:HG13	1:A:275:ILE:H	1.72	0.41
1:B:116:LEU:HD12	1:B:122:ALA:HA	2.01	0.41
1:A:123:GLU:O	1:A:127:VAL:HG13	2.20	0.41
1:A:85:ILE:HD12	1:A:89:GLU:OE1	2.21	0.41
1:B:64:LYS:H	1:B:64:LYS:HG3	1.67	0.41
1:B:107:LYS:HE2	1:B:108:ASP:OD1	2.21	0.40
1:A:287:ARG:NH1	1:A:290:LYS:HE2	2.36	0.40
1:A:178:VAL:HG23	1:B:235:GLY:HA3	2.03	0.40

All (4) 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	Interatomic distance (Å)	Clash overlap (Å)
1:A:261:GLY:O	1:B:69:THR:OG1[5_454]	2.01	0.19
1:A:108:ASP:OD2	1:B:140:ARG:NH1[4_455]	2.10	0.10
1:A:88:GLU:OE2	1:B:251:ARG:NH1[6_455]	2.13	0.07
1:A:280:GLN:NE2	1:B:259:GLN:OE1[3_554]	2.14	0.06

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	237/260 (91%)	224 (94%)	11 (5%)	2 (1%)	16	45
1	B	239/260 (92%)	224 (94%)	13 (5%)	2 (1%)	16	45
All	All	476/520 (92%)	448 (94%)	24 (5%)	4 (1%)	16	45

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	61	ASN
1	A	240	LEU
1	B	60	LYS
1	B	101	GLY

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	212/228 (93%)	198 (93%)	14 (7%)	14	39

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	213/228 (93%)	207 (97%)	6 (3%)	38	73
All	All	425/456 (93%)	405 (95%)	20 (5%)	22	55

All (20) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	84	ASP
1	A	115	ARG
1	A	127	VAL
1	A	137	LYS
1	A	139	LEU
1	A	150	LEU
1	A	178	VAL
1	A	179	VAL
1	A	181	VAL
1	A	196	SER
1	A	206	ASP
1	A	215	LEU
1	A	225	GLU
1	A	274	LEU
1	B	63	ARG
1	B	102	GLU
1	B	127	VAL
1	B	157	GLN
1	B	183	ASP
1	B	186	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	131	ASN
1	A	138	GLN
1	A	253	GLN
1	B	229	GLN
1	B	288	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 oligosaccharides in this entry.

5.6 Ligand geometry (i)

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	A1JB9	A	401	1	34,34,35	1.78	4 (11%)	46,48,49	1.49	5 (10%)
2	A1JB9	B	401	1	34,34,35	1.30	2 (5%)	46,48,49	1.60	4 (8%)

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	A1JB9	A	401	1	-	6/29/42/44	0/3/3/3
2	A1JB9	B	401	1	-	8/29/42/44	0/3/3/3

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	401	A1JB9	C04-C05	-9.11	1.44	1.53
2	B	401	A1JB9	C04-C05	-6.63	1.46	1.53
2	A	401	A1JB9	C05-N18	-3.03	1.41	1.48
2	A	401	A1JB9	S19-N18	2.64	1.67	1.63
2	A	401	A1JB9	C05-C06	-2.47	1.47	1.52
2	B	401	A1JB9	S19-N18	2.14	1.66	1.63

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	401	A1JB9	C04-C05-N18	7.46	119.47	108.73
2	B	401	A1JB9	C04-C05-N18	6.57	118.20	108.73
2	B	401	A1JB9	C06-C05-N18	6.46	126.41	111.11
2	A	401	A1JB9	C06-C05-N18	4.80	122.47	111.11
2	B	401	A1JB9	C05-C04-N03	-2.96	104.36	110.00
2	A	401	A1JB9	C31-N03-C04	2.80	118.66	113.06
2	B	401	A1JB9	C05-N18-S19	-2.33	113.52	119.29
2	A	401	A1JB9	C30-N18-C05	-2.32	108.72	114.64
2	A	401	A1JB9	C31-N03-C02	-2.23	117.04	122.95

There are no chirality outliers.

All (14) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	401	A1JB9	C32-C02-N03-C04
2	A	401	A1JB9	C32-C02-N03-C31
2	A	401	A1JB9	O01-C02-N03-C04
2	A	401	A1JB9	O01-C02-N03-C31
2	A	401	A1JB9	C04-C05-C06-N07
2	A	401	A1JB9	C04-C05-C06-O17
2	B	401	A1JB9	C05-C06-N07-C1
2	B	401	A1JB9	C27-C20-S19-N18
2	B	401	A1JB9	O17-C06-N07-C1
2	B	401	A1JB9	C21-C20-S19-N18
2	B	401	A1JB9	C21-C20-S19-O29
2	B	401	A1JB9	C27-C20-S19-O29
2	B	401	A1JB9	C05-N18-S19-O29
2	B	401	A1JB9	C27-C20-S19-O28

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	401	A1JB9	1	0
2	B	401	A1JB9	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 A1JB9 A 401

Bond lengths

Bond angles

Torsions

Rings

Ligand A1JB9 B 401
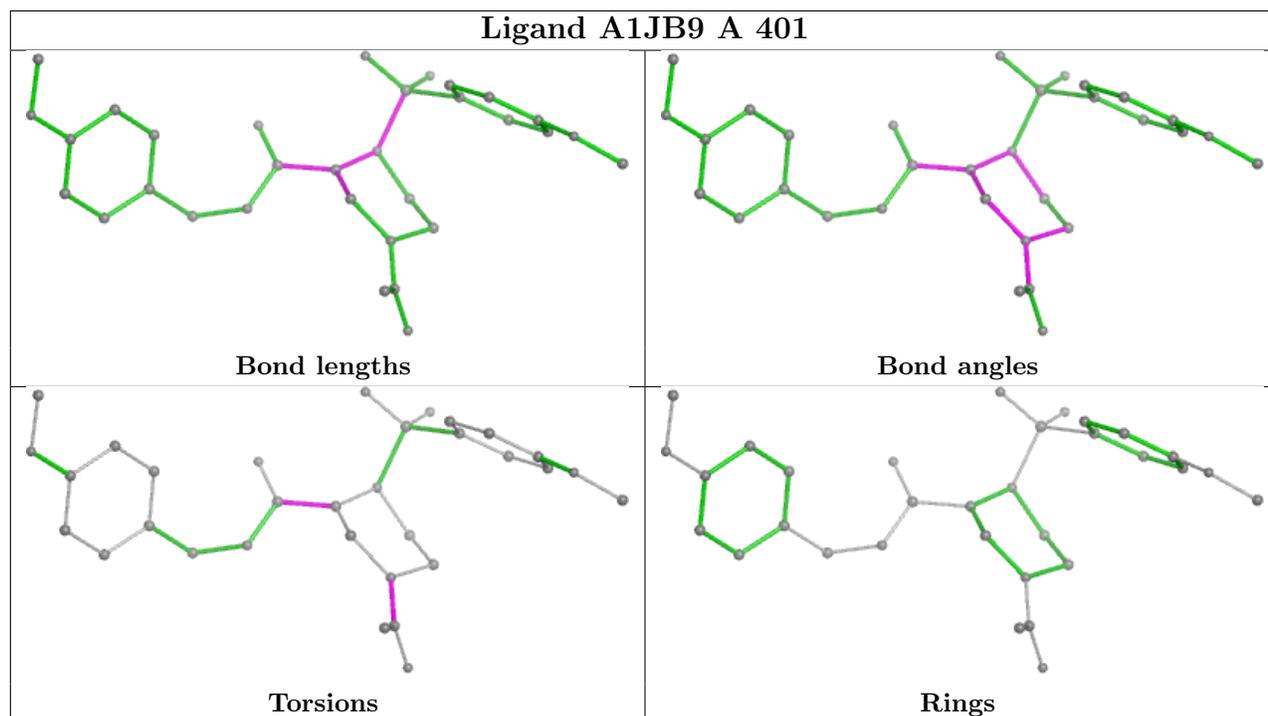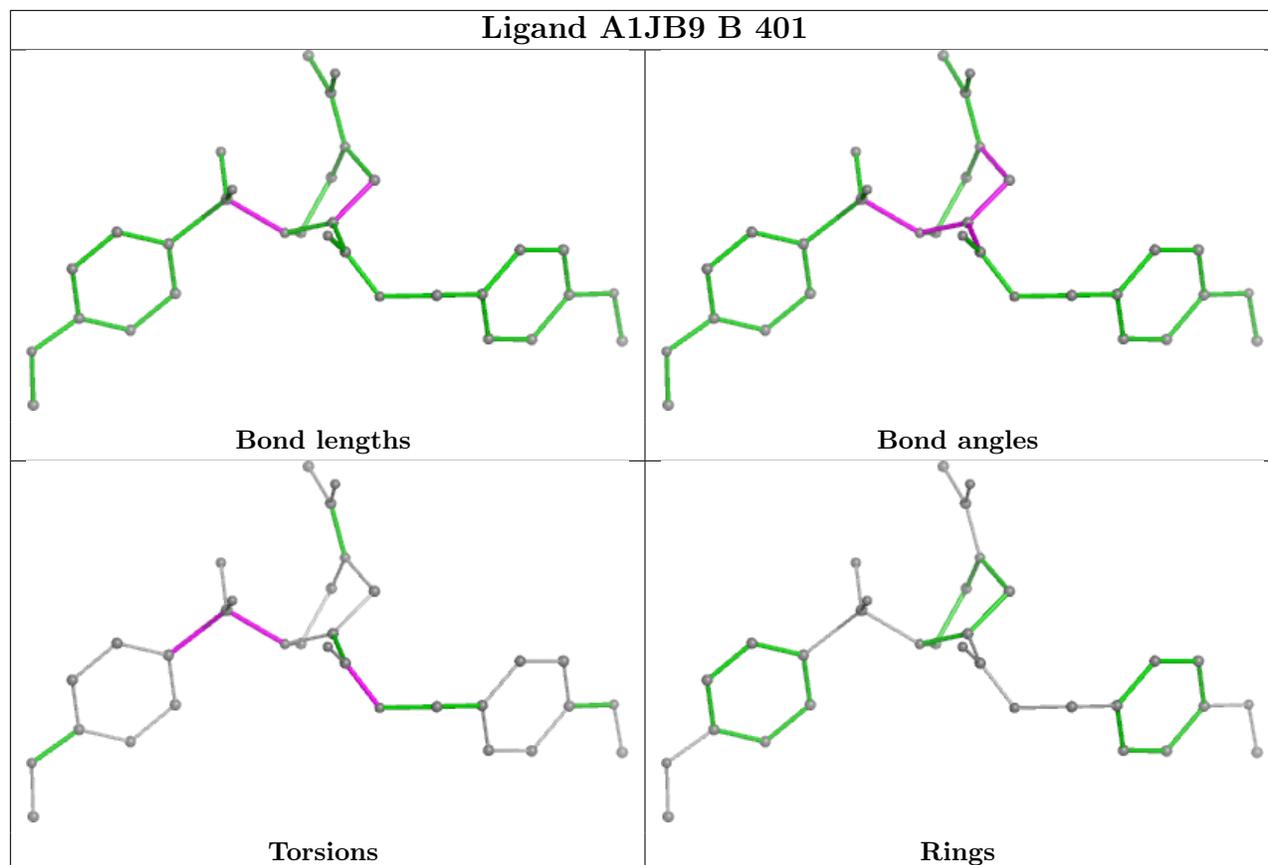
5.7 Other polymers ⓘ

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(Å²)	Q<0.9
1	A	241/260 (92%)	-0.60	0	100	100	13, 21, 43, 64	0
1	B	242/260 (93%)	-0.49	1 (0%)	89	86	13, 24, 49, 70	1 (0%)
All	All	483/520 (92%)	-0.54	1 (0%)	92	91	13, 23, 47, 70	1 (0%)

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	296	LEU	2.8

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

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

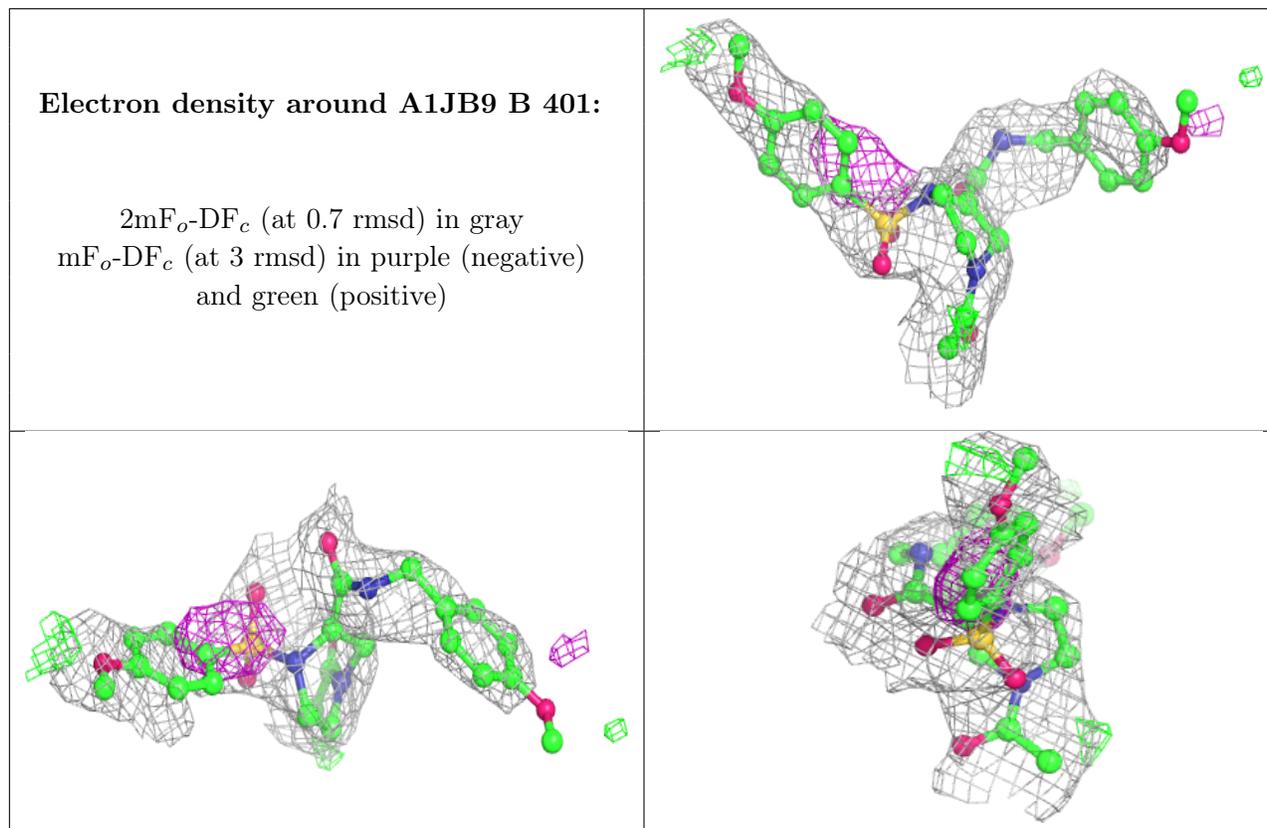## 6.3 Carbohydrates ⓘ

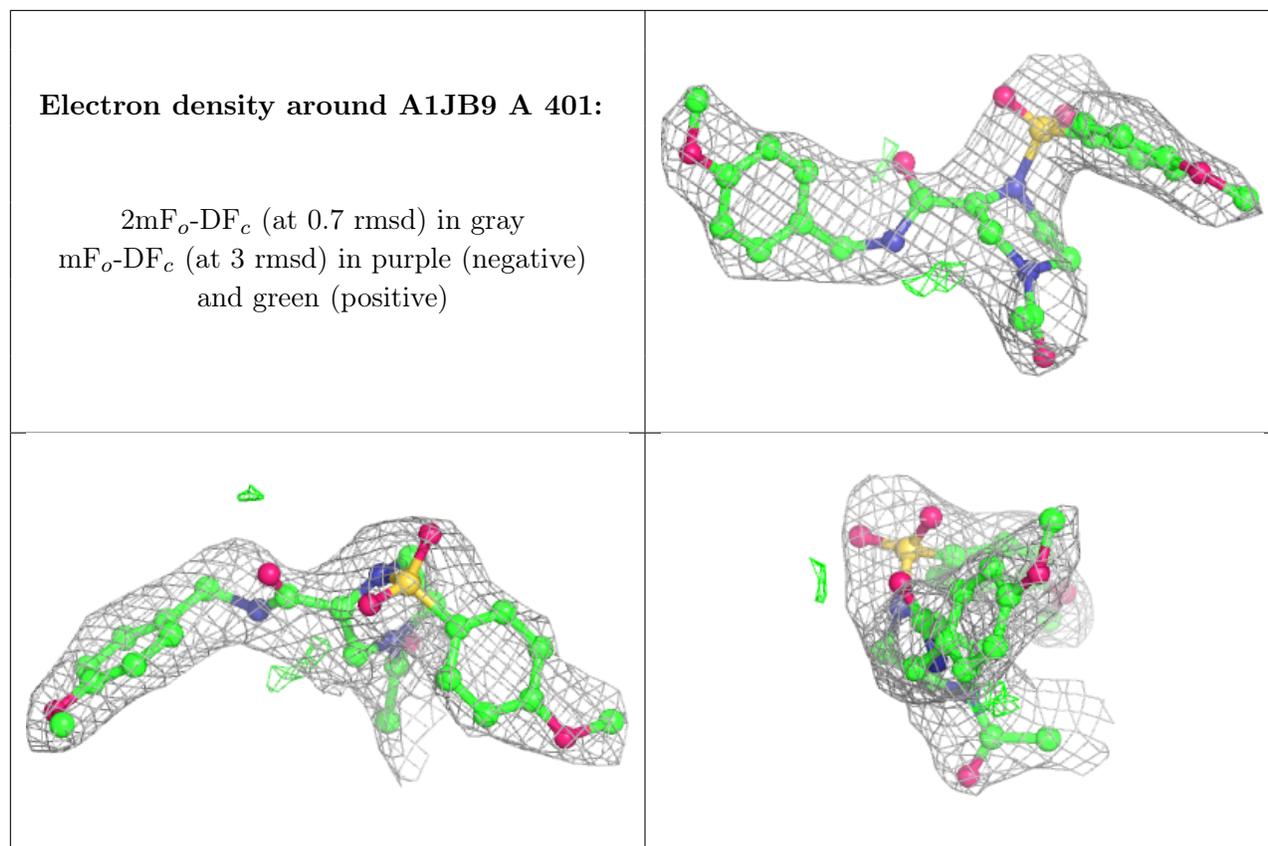There are no oligosaccharides in this entry.

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(Å²)	Q<0.9
2	A1JB9	B	401	32/33	0.71	0.17	41,58,75,87	0
2	A1JB9	A	401	32/33	0.90	0.10	18,23,34,45	32

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 A1JB9 B 401:

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

Electron density around A1JB9 A 401:

$2mF_o$-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 ⓘ

There are no such residues in this entry.