



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 7, 2026 – 02:33 AM UTC

PDB ID : 5PAG / pdb_00005pag
Title : Crystal Structure of Factor VIIa in complex with (2R)-2-hydroxy-N-[[3-[5-hydroxy-4-(1H-pyrrolo[3,2-c]pyridin-2-yl)pyrazol-1-yl]phenyl]methyl]-3-methylbutanamide;hydrobromide
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Deposited on : 2016-11-10
Resolution : 1.36 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	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

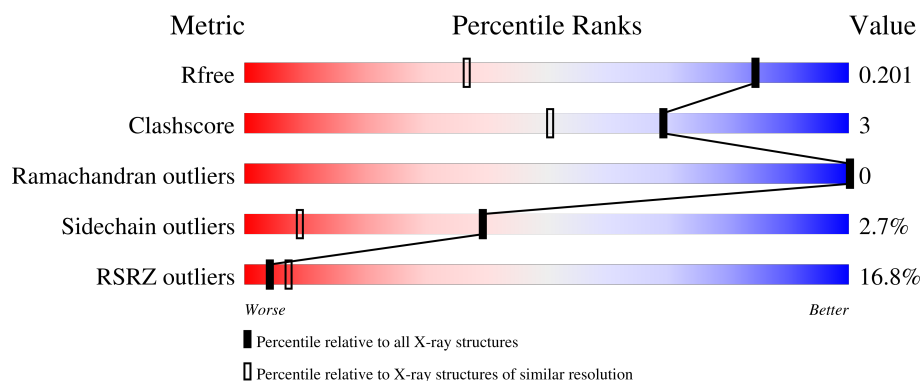
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.36 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}	180053	1216 (1.36-1.36)
Clashscore	190562	1232 (1.36-1.36)
Ramachandran outliers	187476	1220 (1.36-1.36)
Sidechain outliers	187428	1220 (1.36-1.36)
RSRZ outliers	180081	1214 (1.36-1.36)

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	64	27% 73% 16% 11%
2	B	254	13% 88% 9% .

2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 2778 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 Coagulation factor VII light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	57	Total	C	N	O	S	0	0	0
			428	258	77	86	7			

- Molecule 2 is a protein called Coagulation factor VII heavy chain.

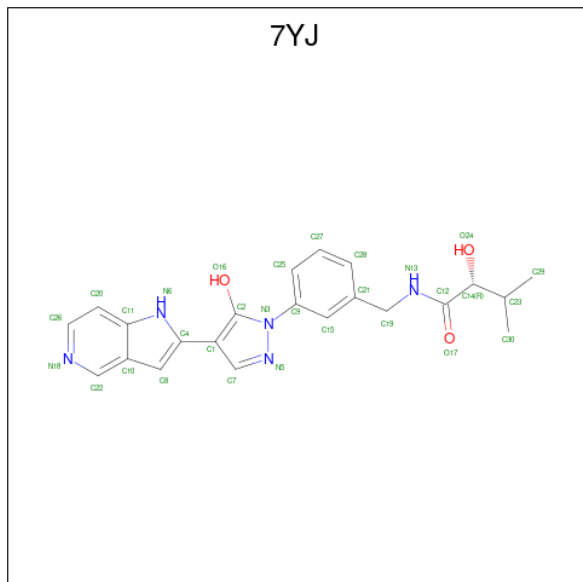
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	247	Total	C	N	O	S	0	14	0
			2012	1280	360	357	15			

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			6	3	3		
3	A	1	Total	C	O	0	0
			6	3	3		

- Molecule 4 is (2R)-2-hydroxy-N-[[3-[5-hydroxy-4-(1H-pyrrolo[3,2-c]pyridin-2-yl)pyrazol-1-yl]phenyl]methyl]-3-methylbutanamide (CCD ID: 7YJ) (formula: C₂₂H₂₃N₅O₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	B	1	Total	C	N	O	0	0
			30	22	5	3		

- Molecule 5 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	1	Total	Ca	0	0
			1	1		

- Molecule 6 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	B	2	Total	Cl	0	0
			2	2		

- Molecule 7 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	B	1	Total	O	S	0	0
			5	4	1		

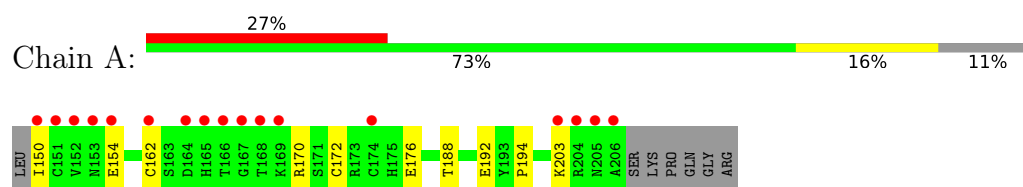
- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	48	Total	O	0	0
			48	48		
8	B	240	Total	O	0	0
			240	240		

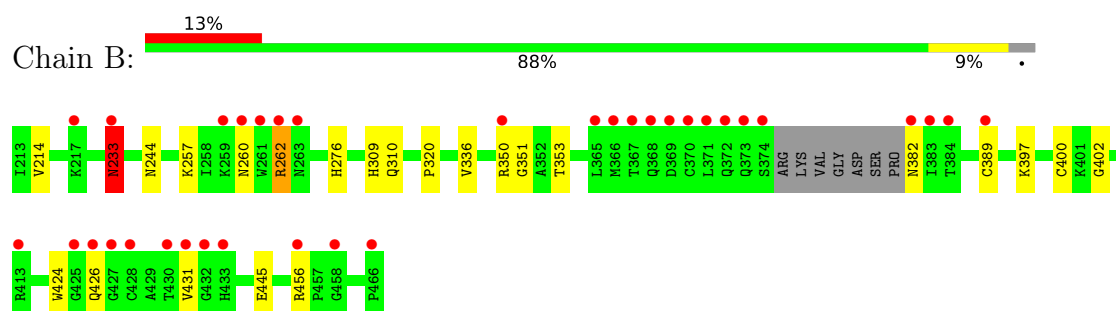
3 Residue-property plots [i](#)

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: Coagulation factor VII light chain



- Molecule 2: Coagulation factor VII heavy chain



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	95.06Å 95.06Å 115.91Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.53 – 1.36 47.53 – 1.36	Depositor EDS
% Data completeness (in resolution range)	93.6 (47.53-1.36) 93.6 (47.53-1.36)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.92 (at 1.36Å)	Xtriage
Refinement program	REFMAC 5.8.0155	Depositor
R, R_{free}	0.183 , 0.194 0.192 , 0.201	Depositor DCC
R_{free} test set	5702 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	18.4	Xtriage
Anisotropy	0.235	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 33.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	2778	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.28% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CA, SO4, 7YJ, CL, GOL

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	1.64	5/435 (1.1%)	1.31	0/587
2	B	1.42	8/2091 (0.4%)	1.25	6/2844 (0.2%)
All	All	1.46	13/2526 (0.5%)	1.26	6/3431 (0.2%)

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	233	ASN	N-CA	8.37	1.56	1.46
2	B	233	ASN	CA-C	8.32	1.64	1.52
2	B	351	GLY	N-CA	-6.66	1.38	1.44
1	A	176	GLU	C-O	6.03	1.30	1.23
1	A	188	THR	CA-C	5.95	1.58	1.52
1	A	194	PRO	N-CA	-5.89	1.39	1.47
2	B	336	VAL	N-CA	-5.80	1.39	1.46
1	A	162	CYS	N-CA	5.58	1.53	1.46
1	A	172	CYS	CA-C	-5.45	1.45	1.52
2	B	431	VAL	CA-CB	5.40	1.59	1.54
2	B	353	THR	N-CA	5.33	1.52	1.45
2	B	389	CYS	CA-C	-5.15	1.46	1.52
2	B	320	PRO	N-CA	-5.02	1.41	1.47

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	424	TRP	CA-C-N	5.99	129.07	120.56
2	B	424	TRP	C-N-CA	5.99	129.07	120.56
2	B	402	GLY	O-C-N	5.85	129.26	122.65
2	B	350	ARG	CA-C-N	5.13	127.04	122.47
2	B	350	ARG	C-N-CA	5.13	127.04	122.47
2	B	424	TRP	O-C-N	5.02	128.53	123.26

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	428	0	400	2	0
2	B	2012	0	2013	15	0
3	A	12	0	16	0	0
4	B	30	0	0	2	0
5	B	1	0	0	0	0
6	B	2	0	0	0	0
7	B	5	0	0	0	0
8	A	48	0	0	1	0
8	B	240	0	0	6	0
All	All	2778	0	2429	17	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 (17) 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)
2:B:214:VAL:HG23	2:B:400[B]:CYS:SG	1.97	1.04
2:B:445[A]:GLU:OE1	8:B:602:HOH:O	1.97	0.82
1:A:192:GLU:OE2	8:A:401:HOH:O	2.16	0.60
2:B:309[B]:HIS:CD2	2:B:310[B]:GLN:HG3	2.39	0.58
2:B:244[B]:ASN:ND2	8:B:605:HOH:O	2.42	0.52
2:B:244[B]:ASN:OD1	2:B:244[B]:ASN:C	2.53	0.50
2:B:456:ARG:NH1	8:B:609:HOH:O	2.46	0.49
2:B:233:ASN:N	2:B:233:ASN:HD22	2.11	0.48
2:B:257:LYS:HE3	4:B:501:7YJ:C23	2.43	0.48
2:B:262[A]:ARG:NH2	8:B:611:HOH:O	2.47	0.47
2:B:276:HIS:HE1	8:B:659:HOH:O	1.97	0.47
2:B:260:ASN:OD1	2:B:262[B]:ARG:NH2	2.48	0.47
2:B:276:HIS:CE1	8:B:659:HOH:O	2.68	0.47
2:B:257:LYS:HE3	4:B:501:7YJ:C30	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:214:VAL:CG2	2:B:400[B]:CYS:SG	2.88	0.45
2:B:214:VAL:O	2:B:397:LYS:HA	2.20	0.41
1:A:170:ARG:HD2	1:A:170:ARG:C	2.45	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	55/64 (86%)	52 (94%)	3 (6%)	0	100	100
2	B	257/254 (101%)	248 (96%)	9 (4%)	0	100	100
All	All	312/318 (98%)	300 (96%)	12 (4%)	0	100	100

There are no Ramachandran outliers to report.

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	49/55 (89%)	46 (94%)	3 (6%)	17	1
2	B	224/216 (104%)	219 (98%)	5 (2%)	45	14
All	All	273/271 (101%)	265 (97%)	8 (3%)	39	8

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	150	ILE
1	A	154	GLU
1	A	203	LYS
2	B	233	ASN
2	B	262[A]	ARG
2	B	262[B]	ARG
2	B	382	ASN
2	B	426	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
2	B	233	ASN
2	B	263	ASN
2	B	276	HIS
2	B	361	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](#)

Of 7 ligands modelled in this entry, 3 are monoatomic - leaving 4 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
7	SO4	B	505	-	4,4,4	0.60	0	6,6,6	0.65	0
3	GOL	A	301	-	5,5,5	0.37	0	5,5,5	0.79	0
4	7YJ	B	501	-	32,33,33	1.72	9 (28%)	43,47,47	2.17	10 (23%)
3	GOL	A	302	-	5,5,5	0.73	0	5,5,5	2.09	1 (20%)

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	GOL	A	301	-	-	2/4/4/4	-
4	7YJ	B	501	-	-	6/21/21/21	0/4/4/4
3	GOL	A	302	-	-	0/4/4/4	-

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	501	7YJ	C7-N5	-4.58	1.26	1.32
4	B	501	7YJ	C9-N3	-3.60	1.36	1.43
4	B	501	7YJ	C11-N6	-3.26	1.32	1.38
4	B	501	7YJ	C27-C25	-3.07	1.33	1.38
4	B	501	7YJ	C22-N18	-2.49	1.29	1.34
4	B	501	7YJ	C8-C4	-2.24	1.34	1.37
4	B	501	7YJ	C4-N6	-2.13	1.35	1.38
4	B	501	7YJ	O17-C12	-2.12	1.19	1.23
4	B	501	7YJ	C2-N3	-2.00	1.33	1.36

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	501	7YJ	C7-N5-N3	6.45	109.73	104.59
4	B	501	7YJ	C2-N3-N5	-5.77	105.91	110.91
4	B	501	7YJ	C9-N3-N5	5.61	125.68	118.85
4	B	501	7YJ	C20-C11-C10	-4.23	118.30	122.13
3	A	302	GOL	C3-C2-C1	-3.52	98.88	111.80
4	B	501	7YJ	C14-C12-N13	3.18	122.97	116.64
4	B	501	7YJ	C26-N18-C22	3.06	122.20	116.85
4	B	501	7YJ	C11-C10-C8	-2.95	104.38	106.80
4	B	501	7YJ	C1-C7-N5	-2.43	109.43	112.45
4	B	501	7YJ	C11-N6-C4	2.41	111.59	109.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	501	7YJ	O17-C12-N13	-2.03	118.69	122.98

There are no chirality outliers.

All (8) torsion outliers are listed below:

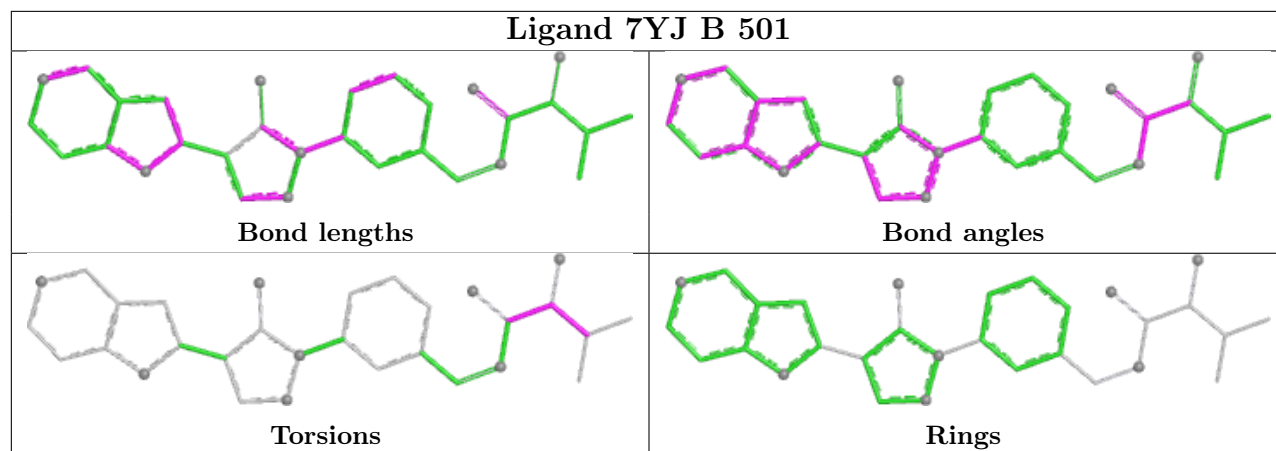
Mol	Chain	Res	Type	Atoms
4	B	501	7YJ	C12-C14-C23-C29
4	B	501	7YJ	C12-C14-C23-C30
4	B	501	7YJ	O24-C14-C23-C29
4	B	501	7YJ	O24-C14-C23-C30
3	A	301	GOL	O1-C1-C2-C3
4	B	501	7YJ	O17-C12-C14-O24
3	A	301	GOL	O1-C1-C2-O2
4	B	501	7YJ	N13-C12-C14-O24

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	501	7YJ	2	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 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	57/64 (89%)	1.66	17 (29%) 1 2	17, 23, 73, 80	0
2	B	247/254 (97%)	0.81	34 (13%) 6 11	10, 22, 46, 80	14 (5%)
All	All	304/318 (95%)	0.97	51 (16%) 4 7	10, 22, 58, 80	14 (4%)

All (51) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	206	ALA	10.2
1	A	150	ILE	8.6
2	B	370	CYS	6.7
1	A	166	THR	5.2
1	A	168	THR	4.8
2	B	371	LEU	4.7
1	A	152	VAL	4.6
1	A	205	ASN	4.4
2	B	426	GLN	4.3
2	B	367	THR	4.2
2	B	425	GLY	4.2
2	B	428	CYS	4.1
2	B	427	GLY	4.1
2	B	259	LYS	4.0
1	A	167	GLY	3.8
1	A	153	ASN	3.8
2	B	382	ASN	3.8
2	B	374	SER	3.7
2	B	431	VAL	3.5
2	B	260	ASN	3.4
1	A	151	CYS	3.4
1	A	203	LYS	3.3
1	A	204	ARG	3.3
2	B	261	TRP	3.2

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Mol	Chain	Res	Type	RSRZ
2	B	373	GLN	3.2
2	B	233	ASN	3.1
2	B	383	ILE	3.1
2	B	262[A]	ARG	3.1
2	B	368	GLN	3.0
2	B	389	CYS	3.0
2	B	369	ASP	2.9
2	B	263	ASN	2.9
2	B	365	LEU	2.9
2	B	456	ARG	2.7
1	A	165	HIS	2.7
2	B	372	GLN	2.7
2	B	366	MET	2.7
2	B	458	GLY	2.5
2	B	466	PRO	2.5
2	B	413	ARG	2.4
2	B	433	HIS	2.4
1	A	154	GLU	2.3
1	A	162	CYS	2.2
1	A	164	ASP	2.2
1	A	169	LYS	2.2
1	A	174	CYS	2.1
2	B	384	THR	2.1
2	B	430	THR	2.1
2	B	350	ARG	2.1
2	B	432	GLY	2.0
2	B	217	LYS	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 oligosaccharides in this entry.

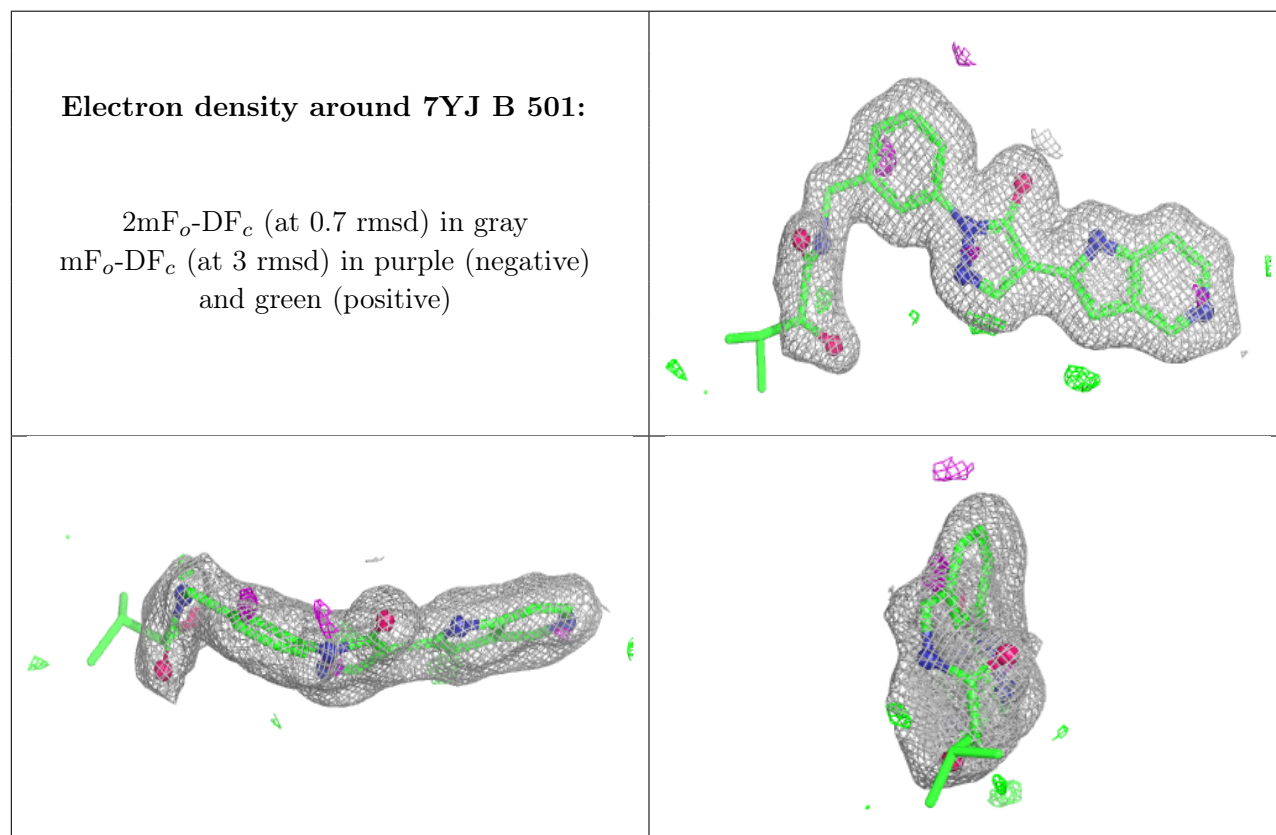
6.4 Ligands [i](#)

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
6	CL	B	503	1/1	0.78	0.24	61,61,61,61	0
7	SO4	B	505	5/5	0.87	0.13	45,45,56,58	0
3	GOL	A	301	6/6	0.88	0.15	25,37,44,51	0
3	GOL	A	302	6/6	0.88	0.15	31,44,46,48	0
6	CL	B	504	1/1	0.92	0.16	60,60,60,60	0
4	7YJ	B	501	30/30	0.95	0.11	22,25,70,73	0
5	CA	B	502	1/1	0.97	0.28	32,32,32,32	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.