

Full wwPDB X-ray Structure Validation Report (i)

Nov 28, 2023 – 04:03 PM EST

PDB ID	:	7GLL
Title	:	Group deposition SARS-CoV-2 main protease in complex with inhibitors from
		the COVID Moonshot – Crystal Structure of SARS-CoV-2 main protease in complex with EDJ-MED-4fff0a85-1 (Mpro-P1988)
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		V.L.; Skyner, R.; Strain-Damerell, C.M.; Thompson, W.; Tomlinson, C.W.E.;
		Wild, C.; Walsh, M.A.; von Delft, F.
Deposited on	:	2023-08-11
Resolution	:	1.91 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 types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (1)) were used in the production of this report:

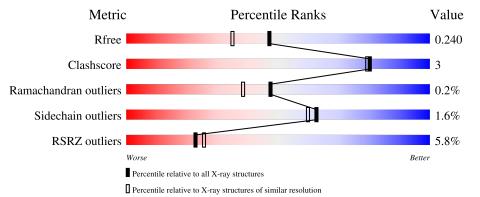
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)

Overall quality at a glance (i) 1

The following experimental techniques were used to determine the structure: X-RAY DIFFRACTION

The reported resolution of this entry is 1.91 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	6207 (1.90-1.90)
Clashscore	141614	6847 (1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

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 $\leq =5\%$ 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	А	306	4% 92%	7%
1	В	306	8%	8% •

Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
		Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

2 Entry composition (i)

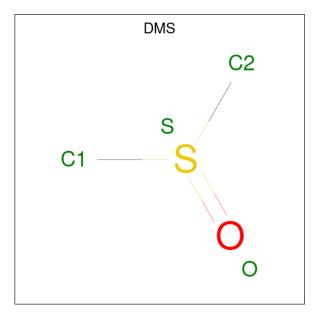
There are 5 unique types of molecules in this entry. The entry contains 5094 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 3C-like proteinase.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	А	305	Total 2371	C 1502	N 401	0 446	S 22	0	3	0
1	В	297	Total 2298	C 1460	N 391	O 427	S 20	0	0	0

• Molecule 2 is DIMETHYL SULFOXIDE (three-letter code: DMS) (formula: C₂H₆OS).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
2	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
2	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
2	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0

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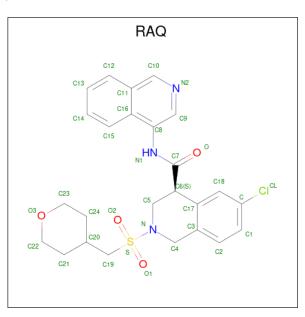
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	В	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
2	В	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
2	В	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
2	В	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0

• Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total Cl 1 1	0	0

• Molecule 4 is (4S)-6-chloro-N-(isoquinolin-4-yl)-2-[(oxan-4-yl)methanesulfonyl]-1,2,3,4-t etrahydroisoquinoline-4-carboxamide (three-letter code: RAQ) (formula: C₂₅H₂₆ClN₃O₄S) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
4	Λ	1	Total	С	Cl	Ν	0	S	0	0
4	4 A	1	34	25	1	3	4	1	0	0
4	В	1	Total	С	Cl	Ν	0	S	0	0
4	D		34	25	1	3	4	1	0	

• Molecule 5 is water.

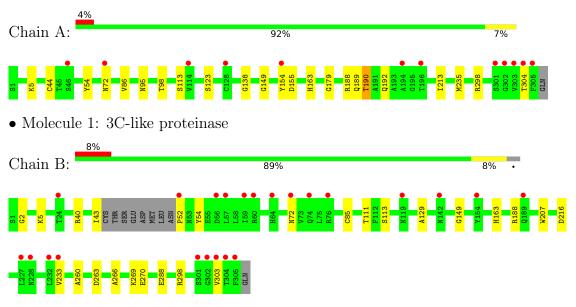


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	209	Total O 210 210	0	1
5	В	114	Total O 114 114	0	0



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: 3C-like proteinase



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	67.98Å 100.41Å 104.66Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	37.68 - 1.91	Depositor
Resolution (A)	37.68 - 1.90	EDS
% Data completeness	74.9(37.68-1.91)	Depositor
(in resolution range)	74.8(37.68-1.90)	EDS
R _{merge}	0.10	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.33 (at 1.91 \text{\AA})$	Xtriage
Refinement program	BUSTER 2.10.4 (20-APR-2021)	Depositor
P. P.	0.216 , 0.245	Depositor
R, R_{free}	0.211 , 0.240	DCC
R_{free} test set	2136 reflections (5.03%)	wwPDB-VP
Wilson B-factor $(Å^2)$	29.6	Xtriage
Anisotropy	0.061	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.32 , 41.2	EDS
L-test for twinning ²	$< L > = 0.50, < L^2 > = 0.34$	Xtriage
Estimated twinning fraction	0.011 for -h,l,k	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	5094	wwPDB-VP
Average B, all atoms $(Å^2)$	35.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.88% of the height of the origin peak. No significant pseudotranslation is detected.

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.



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: DMS, RAQ, CL

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		
	Moi Chain		# Z > 5	RMSZ	# Z > 5	
1	А	0.42	0/2433	0.61	0/3307	
1	В	0.41	0/2350	0.57	0/3192	
All	All	0.41	0/4783	0.59	0/6499	

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	А	2371	0	2321	11	0
1	В	2298	0	2253	16	0
2	А	16	0	24	1	0
2	В	16	0	24	1	0
3	А	1	0	0	0	0
4	А	34	0	0	1	0
4	В	34	0	0	1	0
5	А	210	0	0	1	0
5	В	114	0	0	1	0
All	All	5094	0	4622	25	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 (25) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
		distance (Å)	overlap (Å)
1:B:52:PRO:HD2	1:B:188:ARG:HD3	1.79	0.63
1:A:213:ILE:HA	1:A:304:THR:HG23	1.87	0.56
1:A:298:ARG:NH1	2:A:402:DMS:O	2.38	0.56
1:B:298:ARG:HH11	2:B:401:DMS:H12	1.72	0.54
1:A:138:GLY:O	1:B:2:GLY:HA3	2.07	0.54
1:A:123:SER:HB2	1:B:303:VAL:O	2.10	0.51
1:A:190:THR:O	1:A:192:GLN:HG3	2.11	0.51
1:A:5:LYS:HD3	5:A:512:HOH:O	2.10	0.50
1:A:44:CYS:SG	1:A:54:TYR:CE1	3.04	0.50
1:B:163:HIS:NE2	4:B:404:RAQ:N2	2.61	0.49
1:A:163:HIS:NE2	4:A:406:RAQ:N2	2.64	0.46
1:B:266:ALA:O	1:B:270:GLU:HG2	2.16	0.46
1:A:86:VAL:HG13	1:A:179:GLY:HA2	1.97	0.46
1:B:43:ILE:HD11	1:B:54:TYR:HD1	1.82	0.45
1:B:40:ARG:HD3	1:B:85:CYS:HA	1.99	0.44
1:B:113:SER:O	1:B:149:GLY:HA2	2.18	0.44
1:B:5:LYS:HD3	5:B:502:HOH:O	2.18	0.43
1:B:111:THR:HG22	1:B:129:ALA:HB2	2.02	0.42
1:B:298:ARG:HG3	1:B:303:VAL:HB	2.03	0.41
1:B:207:TRP:CE2	1:B:288:GLU:HB3	2.56	0.41
1:B:52:PRO:HD2	1:B:188:ARG:CD	2.48	0.41
1:A:113:SER:O	1:A:149:GLY:HA2	2.21	0.40
1:B:233:VAL:HG11	1:B:269:LYS:HG3	2.02	0.40
1:B:260:ALA:O	1:B:263:ASP:HB3	2.21	0.40
1:A:95:ASN:HB3	1:A:98:THR:OG1	2.21	0.40

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	Perce	entiles
1	А	306/306~(100%)	298~(97%)	7~(2%)	1 (0%)	41	31
1	В	293/306~(96%)	286~(98%)	7~(2%)	0	100	100
All	All	599/612~(98%)	584 (98%)	14~(2%)	1 (0%)	47	38

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	154	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	А	265/263~(101%)	259~(98%)	6(2%)	50 45
1	В	254/263~(97%)	252~(99%)	2(1%)	81 82
All	All	519/526~(99%)	511 (98%)	8 (2%)	62 62

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

Mol	Chain	Res	Type
1	А	72	ASN
1	А	155	ASP
1	А	188	ARG
1	А	189	GLN
1	А	190	THR
1	А	235	MET
1	В	72	ASN
1	В	216	ASP

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

Mol	Chain	Res	Type
1	А	64	HIS
1	А	164	HIS

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Mol	Chain	Res	Type
1	А	244	GLN
1	В	19	GLN
1	В	164	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 monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 11 ligands modelled in this entry, 1 is monoatomic - leaving 10 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).

Mal	Trune	Chain	Dec	Link	Bo	ond leng	ths	В	ond ang	les
Mol	Type	Chain	Res		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	DMS	А	401	-	3,3,3	0.35	0	3,3,3	0.60	0
2	DMS	В	405	-	3,3,3	0.20	0	3,3,3	0.38	0
4	RAQ	В	404	-	38,38,38	0.28	0	$51,\!55,\!55$	0.44	0
4	RAQ	А	406	-	38,38,38	0.27	0	$51,\!55,\!55$	0.62	2 (3%)
2	DMS	А	403	-	3,3,3	0.28	0	3,3,3	0.29	0
2	DMS	А	404	-	3,3,3	0.30	0	3,3,3	0.23	0
2	DMS	В	402	-	3,3,3	0.28	0	3,3,3	0.29	0
2	DMS	А	402	-	3,3,3	0.28	0	3,3,3	0.37	0
2	DMS	В	403	-	3,3,3	0.26	0	3,3,3	0.65	0
2	DMS	В	401	-	3,3,3	0.04	0	3,3,3	0.22	0



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
4	RAQ	А	406	-	-	11/19/39/39	0/5/5/5
4	RAQ	В	404	-	-	12/19/39/39	0/5/5/5

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
4	А	406	RAQ	C5-N-S	2.16	123.52	119.73
4	А	406	RAQ	C6-C5-N	-2.02	106.28	110.96

There are no chirality outliers.

All (23) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	В	404	RAQ	S-C19-C20-C21
4	В	404	RAQ	C20-C19-S-O2
4	В	404	RAQ	C20-C19-S-O1
4	В	404	RAQ	C20-C19-S-N
4	В	404	RAQ	C4-N-S-O2
4	В	404	RAQ	S-C19-C20-C24
4	В	404	RAQ	C9-C8-N1-C7
4	А	406	RAQ	C4-N-S-O2
4	А	406	RAQ	C5-N-S-O2
4	А	406	RAQ	C5-N-S-O1
4	В	404	RAQ	C4-N-S-C19
4	А	406	RAQ	C9-C8-N1-C7
4	А	406	RAQ	C4-N-S-O1
4	А	406	RAQ	C20-C19-S-O2
4	А	406	RAQ	C4-N-S-C19
4	А	406	RAQ	C5-N-S-C19
4	А	406	RAQ	C5-C6-C7-N1
4	А	406	RAQ	C5-C6-C7-O
4	В	404	RAQ	C5-C6-C7-N1
4	В	404	RAQ	C5-C6-C7-O
4	А	406	RAQ	C16-C8-N1-C7
4	В	404	RAQ	C16-C8-N1-C7
4	В	404	RAQ	C4-N-S-O1



There are no ring outliers.

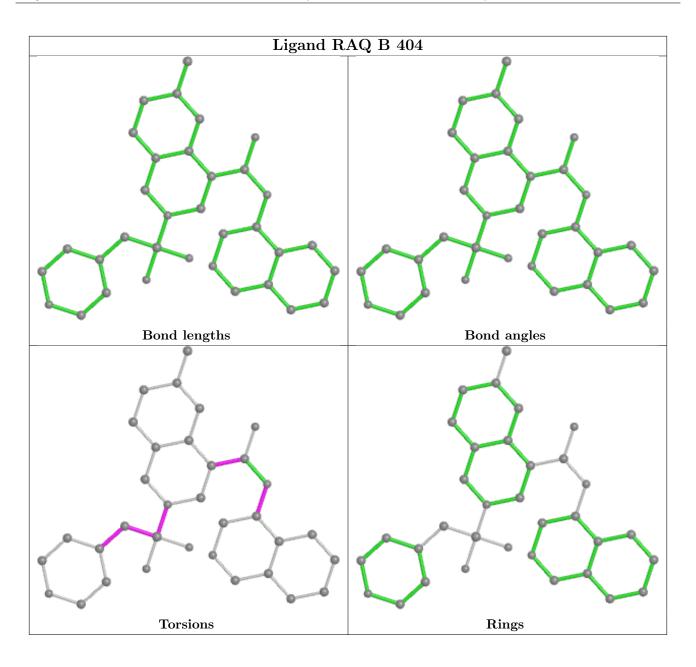
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	В	404	RAQ	1	0
4	А	406	RAQ	1	0
2	А	402	DMS	1	0
2	В	401	DMS	1	0

4 monomers are involved in 4 short contacts:

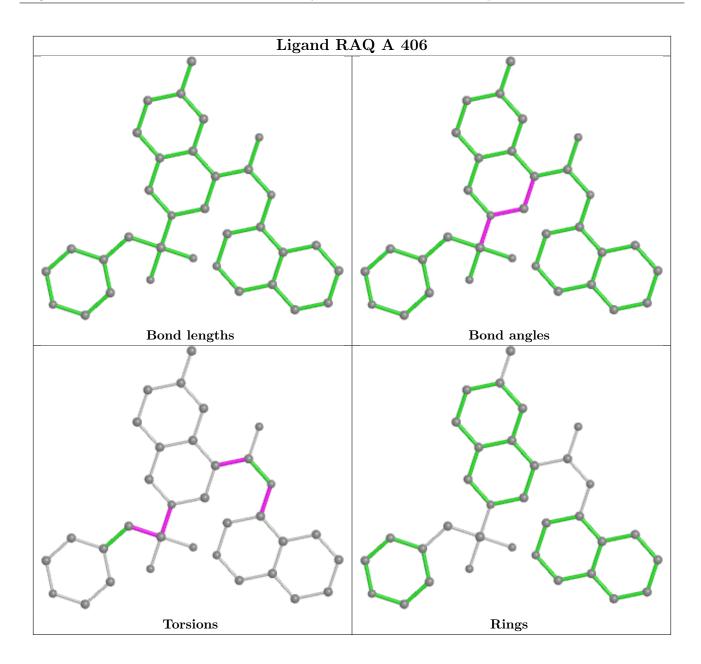
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less 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 sufficient 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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	305/306~(99%)	0.12	12 (3%) 39 42	20, 31, 49, 71	0
1	В	297/306~(97%)	0.32	23 (7%) 13 15	20, 35, 60, 80	0
All	All	602/612~(98%)	0.22	35 (5%) 23 25	20, 32, 56, 80	0

All (35) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	154	TYR	7.0
1	В	154	TYR	6.8
1	А	304	THR	5.6
1	А	303	VAL	5.6
1	А	305	PHE	5.5
1	В	60	ARG	5.3
1	В	305	PHE	5.1
1	В	52	PRO	5.1
1	В	56	ASP	4.4
1	В	24	THR	3.9
1	В	59	ILE	3.8
1	А	301	SER	3.7
1	В	189	GLN	3.6
1	А	302	GLY	3.6
1	В	302	GLY	3.5
1	В	57	LEU	3.4
1	В	303	VAL	3.3
1	В	72	ASN	3.0
1	А	46	SER	2.7
1	В	64	HIS	2.5
1	В	119	ASN	2.5
1	А	196	THR	2.5
1	В	304	THR	2.5
1	B	76	ARG	2.4

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Mol	Chain	Res	Type	RSRZ
1	В	142	ASN	2.4
1	А	72	ASN	2.3
1	В	74	GLN	2.3
1	В	233	VAL	2.3
1	В	232	LEU	2.3
1	А	194	ALA	2.1
1	А	128	CYS	2.1
1	В	227	LEU	2.1
1	В	228	ASN	2.0
1	А	114	VAL	2.0
1	В	301	SER	2.0

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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.

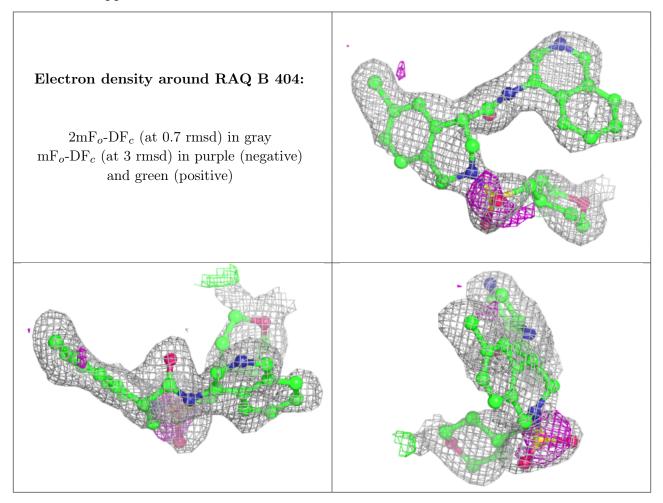
6.4 Ligands (i)

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, 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.

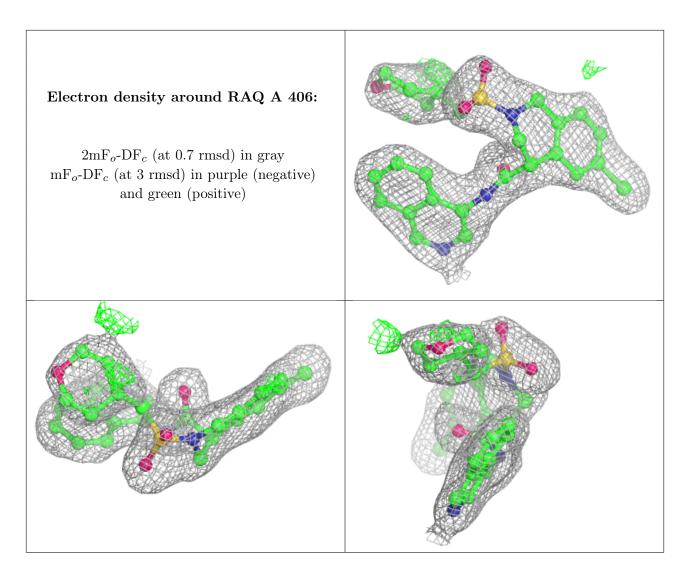
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(Å^2)$	Q<0.9
4	RAQ	В	404	34/34	0.71	0.25	$62,\!66,\!70,\!70$	0
2	DMS	В	403	4/4	0.81	0.30	$67,\!67,\!67,\!67$	0
2	DMS	А	404	4/4	0.84	0.24	80,80,80,80	0
4	RAQ	А	406	34/34	0.87	0.14	31,37,47,47	34
2	DMS	В	402	4/4	0.87	0.18	91,91,91,91	0
2	DMS	А	402	4/4	0.89	0.20	62,62,62,62	0
2	DMS	В	405	4/4	0.91	0.15	71,71,71,71	0
2	DMS	А	401	4/4	0.94	0.19	66,66,66,66	0
2	DMS	А	403	4/4	0.96	0.15	$65,\!65,\!65,\!65$	0
2	DMS	В	401	4/4	0.98	0.09	41,42,42,42	0
3	CL	А	405	1/1	0.99	0.10	24,24,24,24	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.

