

Full wwPDB X-ray Structure Validation Report (i)

Nov 28, 2023 – 10:01 PM EST

PDB ID	:	7GN6
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 MAT-POS-e119ab4f-5 (Mpro-P2358)
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		Brandao-Neto, J.; Dias, A.; Douangamath, A.; Dunnett, L.; Godoy, A.S.;
		Gorrie-Stone, T.J.; Koekemoer, L.; Krojer, T.; Lithgo, R.M.; Lukacik, P.;
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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	:	2.44 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:

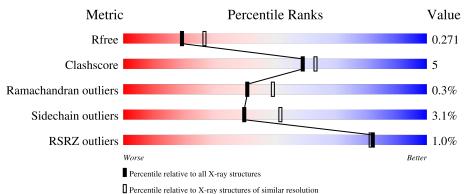
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY \, DIFFRACTION$

The reported resolution of this entry is 2.44 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	1564 (2.46-2.42)
Clashscore	141614	1631 (2.46-2.42)
Ramachandran outliers	138981	1617 (2.46-2.42)
Sidechain outliers	138945	1617 (2.46-2.42)
RSRZ outliers	127900	1547 (2.46-2.42)

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	А	306	.% 88%	12%					
1	В	306	83%	15%	·				

Refmac	:	Ę
CCP4	:	7
Ideal geometry (proteins)	:	I
Ideal geometry (DNA, RNA)	:	ł
Validation Pipeline (wwPDB-VP)	:	2

5.8.0158 7.0.044 (Gargrove) Engh & Huber (2001) Parkinson et al. (1996) 2.36



The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

				Chirality	Geometry	Clashes	Electron density
2	DMS	В	404	-	-	-	Х



7GN6

2 Entry composition (i)

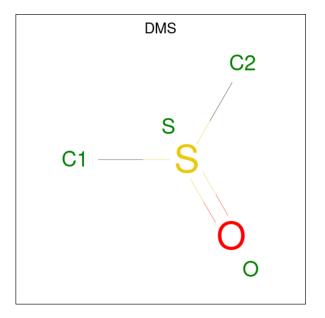
There are 5 unique types of molecules in this entry. The entry contains 5004 atoms, of which 0 are hydrogens and 0 are deuteriums.

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	Atoms				ZeroOcc	AltConf	Trace	
1	А	305	Total 2358	C 1494	N 400	0 442	S 22	0	0	0
1	В	299	Total 2312	C 1467	N 394	O 430	S 21	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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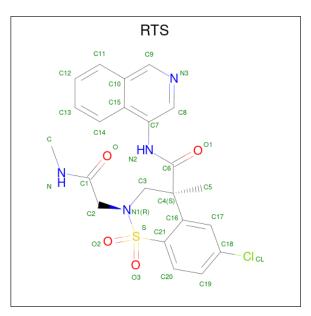
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
2	В	1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0	0
2	В	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	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

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

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

• Molecule 4 is (4S)-6-chloro-N-(isoquinolin-4-yl)-4-methyl-2-[2-(methylamino)-2-oxoethyl]-1,1-dioxo-1,2,3,4-tetrahydro-1lambda 6 ,2-benzothiazine-4-carboxamide (three-letter code: RTS) (formula: C₂₂H₂₁ClN₄O₄S) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
4	А	1	Total 32	C 22	1	N 4	0 4	S 1	0	0

• Molecule 5 is water.

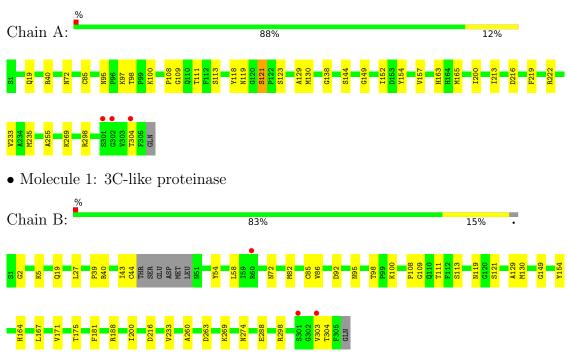


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	176	Total O 176 176	0	0
5	В	89	Total O 89 89	0	0



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 100.76Å 104.72Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	72.61 - 2.44	Depositor
Resolution (A)	72.61 - 2.44	EDS
% Data completeness	65.0(72.61-2.44)	Depositor
(in resolution range)	65.0(72.61-2.44)	EDS
R _{merge}	0.34	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.70 (at 2.45 \text{\AA})$	Xtriage
Refinement program	BUSTER 2.10.4 (20-OCT-2021)	Depositor
P. P.	0.210 , 0.274	Depositor
R, R_{free}	0.207 , 0.271	DCC
R_{free} test set	904 reflections (5.07%)	wwPDB-VP
Wilson B-factor $(Å^2)$	27.3	Xtriage
Anisotropy	0.190	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.30 , 40.4	EDS
L-test for twinning ²	$< L > = 0.49, < L^2 > = 0.32$	Xtriage
Estimated twinning fraction	0.003 for -h,l,k	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	5004	wwPDB-VP
Average B, all atoms $(Å^2)$	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.17% 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, RTS, 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		
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.43	0/2411	0.63	0/3277	
1	В	0.40	0/2364	0.60	0/3212	
All	All	0.42	0/4775	0.62	0/6489	

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	2358	0	2306	24	0
1	В	2312	0	2263	26	0
2	А	20	0	30	1	0
2	В	16	0	24	0	0
3	А	1	0	0	0	0
4	А	32	0	0	3	0
5	А	176	0	0	2	0
5	В	89	0	0	2	0
All	All	5004	0	4623	44	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 5.



Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	distance (Å)	overlap (Å)
1:B:5:LYS:HD3	5:B:508:HOH:O	1.88	0.72
1:B:298:ARG:HG3	1:B:303:VAL:HB	1.77	0.66
1:A:165:MET:HB3	4:A:406:RTS:CL	2.32	0.66
1:A:118:TYR:HB2	1:B:304:THR:HG21	1.80	0.63
1:A:121:SER:HB3	1:B:304:THR:HB	1.80	0.62
1:B:109:GLY:HA2	1:B:200:ILE:HD13	1.81	0.61
1:A:109:GLY:HA2	1:A:200:ILE:HD13	1.82	0.60
1:A:213:ILE:HA	1:A:304:THR:HG23	1.84	0.59
1:B:43:ILE:HD11	1:B:54:TYR:HD1	1.68	0.59
1:A:40:ARG:HD3	1:A:85:CYS:HA	1.89	0.54
1:A:163:HIS:NE2	4:A:406:RTS:N3	2.56	0.53
1:B:40:ARG:HD3	1:B:85:CYS:HA	1.91	0.53
1:B:111:THR:HG22	1:B:129:ALA:HB2	1.91	0.53
1:A:111:THR:HG22	1:A:129:ALA:HB2	1.92	0.50
1:B:44:CYS:SG	1:B:54:TYR:CE1	3.05	0.49
1:A:108:PRO:HA	1:A:130:MET:HG3	1.95	0.49
1:A:298:ARG:HH11	2:A:402:DMS:H12	1.77	0.49
1:B:164:HIS:CE1	1:B:175:THR:HG23	2.48	0.48
1:A:152:ILE:HG12	1:A:157:VAL:HG22	1.95	0.48
1:A:123:SER:HB3	1:B:304:THR:HG22	1.96	0.47
1:A:118:TYR:HB2	1:B:304:THR:CG2	2.45	0.47
1:A:19:GLN:HE21	1:A:119:ASN:HB3	1.79	0.46
1:B:233:VAL:HG21	1:B:269:LYS:HE2	1.97	0.46
1:B:19:GLN:HE21	1:B:119:ASN:HB3	1.79	0.46
1:B:108:PRO:HA	1:B:130:MET:HG3	1.97	0.46
1:A:123:SER:HB2	1:B:303:VAL:O	2.17	0.45
1:A:97:LYS:HD2	5:A:580:HOH:O	2.17	0.45
1:B:167:LEU:HD12	1:B:171:VAL:HG23	1.99	0.45
1:A:233:VAL:HG21	1:A:269:LYS:HE3	1.99	0.44
1:B:27:LEU:HD13	1:B:39:PRO:HD2	2.00	0.43
1:A:95:ASN:HB3	1:A:98:THR:OG1	2.19	0.43
1:B:288:GLU:OE2	5:B:501:HOH:O	2.21	0.43
1:B:19:GLN:HG3	1:B:119:ASN:HA	2.00	0.43
1:A:138:GLY:O	1:B:2:GLY:HA3	2.18	0.42
1:B:233:VAL:HG11	1:B:269:LYS:HG3	2.00	0.42
1:B:260:ALA:O	1:B:263:ASP:HB2	2.20	0.42
1:A:165:MET:HB3	4:A:406:RTS:C18	2.50	0.42
1:A:255:ALA:HB2	5:A:578:HOH:O	2.18	0.42
1:A:19:GLN:HG3	1:A:119:ASN:HA	2.02	0.41
1:A:113:SER:O	1:A:149:GLY:HA2	2.21	0.41

All (44) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:95:ASN:HB3	1:B:98:THR:OG1	2.19	0.41
1:B:113:SER:O	1:B:149:GLY:HA2	2.20	0.41
1:B:58:LEU:HD22	1:B:82:MET:HE3	2.02	0.41
1:A:118:TYR:CE1	1:A:144:SER:HB3	2.56	0.41

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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	Favoured Allowed		Percer	ntiles
1	А	303/306~(99%)	294 (97%)	8 (3%)	1 (0%)	41	49
1	В	295/306~(96%)	286 (97%)	8 (3%)	1 (0%)	41	49
All	All	598/612~(98%)	580~(97%)	16 (3%)	2~(0%)	41	49

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	154	TYR
1	В	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 side chain conformation was analysed, and the total number of residues.

Continued on next page...



Mol	Chain	Analysed	Analysed Rotameric Outliers		Percentiles
Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	А	262/263~(100%)	255~(97%)	7 (3%)	44 57
1	В	256/263~(97%)	247~(96%)	9 (4%)	36 47
All	All	518/526~(98%)	502~(97%)	16 (3%)	40 52

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All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	72	ASN
1	А	100	LYS
1	А	121	SER
1	А	216	ASP
1	А	219	PHE
1	А	222	ARG
1	А	235	MET
1	В	72	ASN
1	В	86	VAL
1	В	92	ASP
1	В	100	LYS
1	В	121	SER
1	В	181	PHE
1	В	188	ARG
1	В	216	ASP
1	В	274	ASN

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

Mol	Chain	Res	Type
1	А	19	GLN
1	А	64	HIS
1	А	189	GLN
1	В	19	GLN
1	В	277	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 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).

Mol	Turne	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
	Type	Chain	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	DMS	А	402	-	$3,\!3,\!3$	0.35	0	$3,\!3,\!3$	0.65	0
2	DMS	А	404	-	3,3,3	0.29	0	$3,\!3,\!3$	0.21	0
2	DMS	В	401	-	3, 3, 3	0.11	0	3, 3, 3	0.27	0
2	DMS	А	401	-	$3,\!3,\!3$	0.40	0	$3,\!3,\!3$	0.46	0
2	DMS	В	402	-	3,3,3	0.30	0	3, 3, 3	0.23	0
2	DMS	В	403	-	3, 3, 3	0.26	0	3, 3, 3	0.36	0
4	RTS	А	406	-	$33,\!35,\!35$	0.25	0	$43,\!53,\!53$	0.81	2 (4%)
2	DMS	А	407	-	$3,\!3,\!3$	0.33	0	$3,\!3,\!3$	0.37	0
2	DMS	А	403	-	3,3,3	0.22	0	$3,\!3,\!3$	0.24	0
2	DMS	В	404	-	3,3,3	0.30	0	$3,\!3,\!3$	0.37	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	RTS	А	406	-	-	5/16/39/39	0/3/4/4

There are no bond length outliers.

All (2) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Ζ	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
4	А	406	RTS	C3-C4-C6	-2.53	104.11	109.56
4	А	406	RTS	C3-C4-C16	2.27	114.64	109.29

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	А	406	RTS	C5-C4-C6-N2
4	А	406	RTS	C16-C4-C6-N2
4	А	406	RTS	C8-C7-N2-C6
4	А	406	RTS	C15-C7-N2-C6
4	А	406	RTS	C5-C4-C6-O1

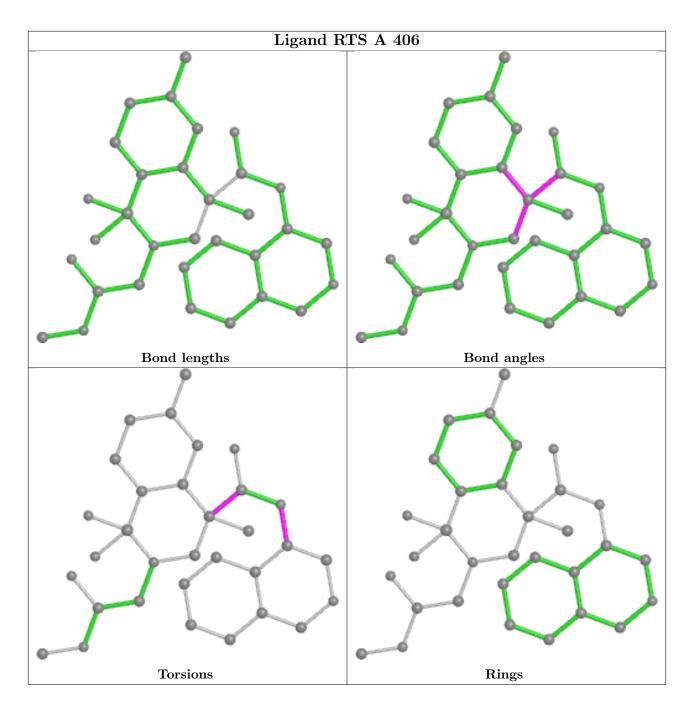
There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	А	402	DMS	1	0
4	А	406	RTS	3	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 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	<RSRZ $>$	# RSRZ > 2	$OWAB(Å^2)$	Q < 0.9
1	А	305/306~(99%)	-0.42	3 (0%) 82 81	14, 29, 45, 72	0
1	В	299/306~(97%)	-0.23	3 (1%) 82 81	16, 33, 63, 78	0
All	All	604/612~(98%)	-0.32	6 (0%) 82 81	14, 31, 54, 78	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	303	VAL	3.4
1	А	302	GLY	3.1
1	В	301	SER	2.9
1	В	60	ARG	2.3
1	А	304	THR	2.3
1	А	301	SER	2.2

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)

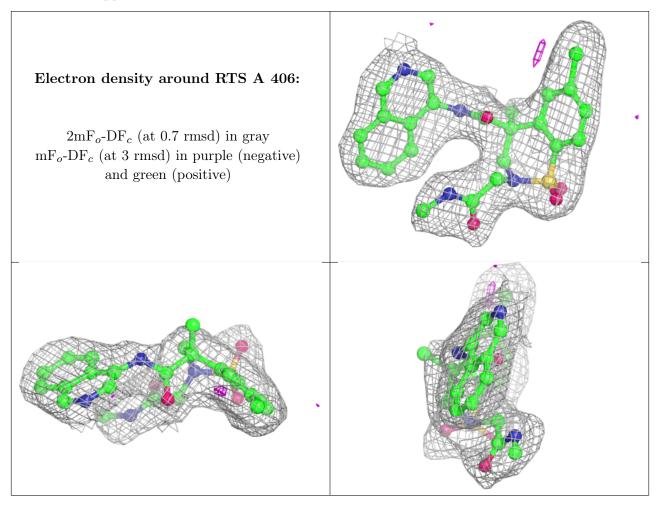
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.



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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	Q<0.9
2	DMS	А	404	4/4	0.77	0.28	$68,\!68,\!69,\!69$	0
2	DMS	В	404	4/4	0.79	0.41	$95,\!95,\!95,\!95$	0
2	DMS	В	403	4/4	0.83	0.27	58, 58, 58, 58	0
2	DMS	А	402	4/4	0.89	0.21	56, 56, 56, 56	0
2	DMS	В	402	4/4	0.95	0.12	58, 58, 58, 58	0
4	RTS	А	406	32/32	0.95	0.12	35,40,43,43	0
2	DMS	А	403	4/4	0.96	0.18	$57,\!57,\!57,\!57$	0
2	DMS	А	401	4/4	0.96	0.12	$51,\!51,\!51,\!51$	0
2	DMS	А	407	4/4	0.97	0.15	62,62,62,62	0
2	DMS	В	401	4/4	0.97	0.13	$36,\!37,\!37,\!37$	0
3	CL	А	405	1/1	0.99	0.06	22,22,22,22	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.

