



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 7, 2026 – 05:09 AM UTC

PDB ID : 7QPW / pdb_00007qpw
Title : X-ray structure of the adduct obtained upon reaction of [cis-Rh2(OCOCH3)2(OCOCF3)2] with RNase A (1)
Authors : Loreto, D.; Merlino, A.
Deposited on : 2022-01-05
Resolution : 1.15 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

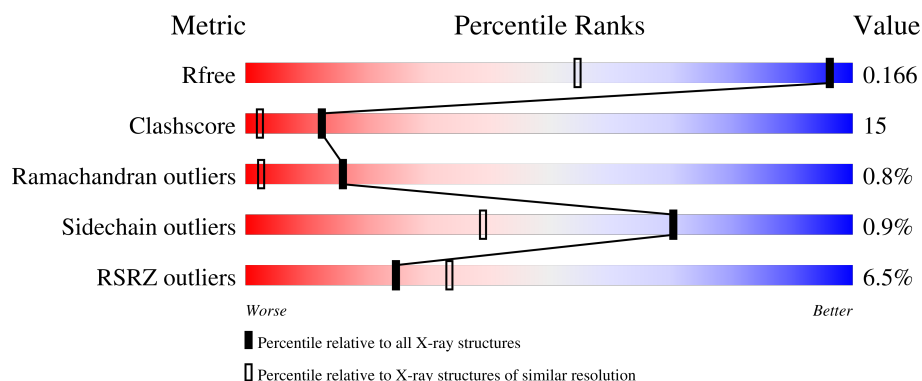
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.15 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	1380 (1.16-1.12)
Clashscore	190562	1393 (1.16-1.12)
Ramachandran outliers	187476	1369 (1.16-1.12)
Sidechain outliers	187428	1369 (1.16-1.12)
RSRZ outliers	180081	1379 (1.16-1.12)

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	AAA	124	8% 83% 12% ..
1	BBB	124	5% 85% 10% ..

2 Entry composition [i](#)

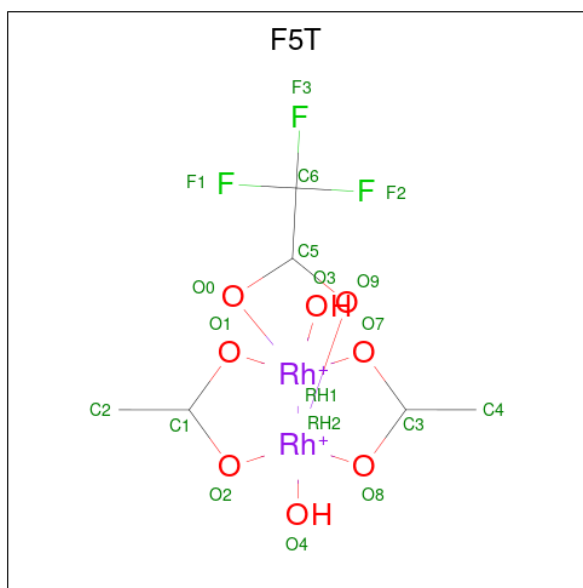
There are 5 unique types of molecules in this entry. The entry contains 2598 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Ribonuclease pancreatic.

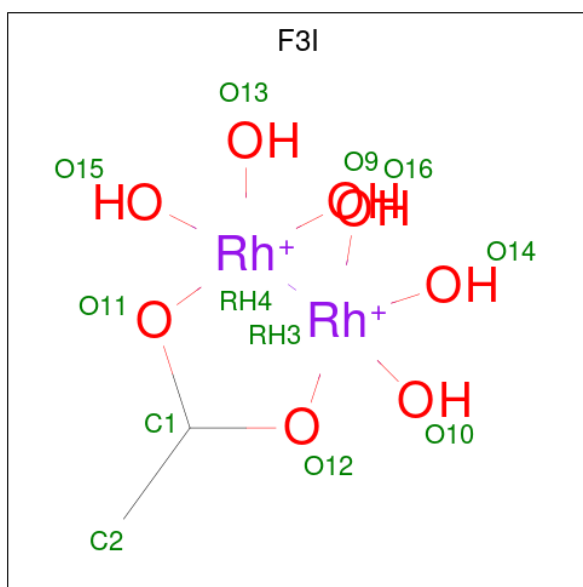
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AAA	124	Total	C	N	O	S	0	12	0
			1045	627	192	214	12			
1	BBB	121	Total	C	N	O	S	0	8	0
			1000	602	181	205	12			

- Molecule 2 is cis-bis(mi2-acetato-O, O')-(mi2-trifluoroacetato-O, O')-diaquo-dirhodium (II) (CCD ID: F5T) (formula: $C_6H_{11}F_3O_8Rh_2$) (labeled as "Ligand of Interest" by depositor).



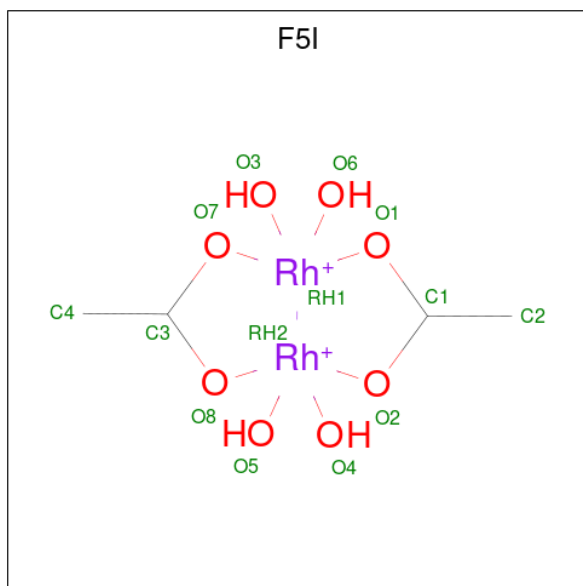
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	AAA	1	Total	C	F	O	Rh	0	1
			19	6	3	8	2		

- Molecule 3 is (mi2-acetato-O, O')-hexaaquo-dirhodium (II) (CCD ID: F3I) (formula: $C_2H_{10}O_8Rh_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	AAA	1	Total	C	O	Rh	0	0
			12	2	8	2		

- Molecule 4 is cis-bis(mi2-acetato-O, O')-tetraaquo-dirhodium(II) (CCD ID: F5I) (formula: $C_4H_{12}O_8Rh_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	BBB	1	Total	C	O	Rh	0	1
			28	8	16	4		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	AAA	258	Total 262	O 262	0	14
5	BBB	231	Total 232	O 232	0	14

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.

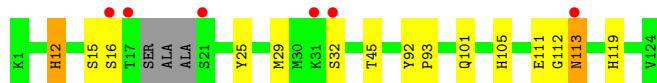
- Molecule 1: Ribonuclease pancreatic

Chain AAA: 



- Molecule 1: Ribonuclease pancreatic

Chain BBB: 



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	100.50Å 32.91Å 73.06Å 90.00° 90.16° 90.00°	Depositor
Resolution (Å)	73.06 – 1.15 73.06 – 1.15	Depositor EDS
% Data completeness (in resolution range)	99.6 (73.06-1.15) 99.5 (73.06-1.15)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.38 (at 1.15Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.136 , 0.165 0.135 , 0.166	Depositor DCC
R_{free} test set	4156 reflections (4.87%)	wwPDB-VP
Wilson B-factor (Å ²)	11.4	Xtriage
Anisotropy	0.454	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 41.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.015 for -h,-k,l	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	2598	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.92% 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: F3I, F5T, F5I

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	AAA	1.14	2/1063 (0.2%)	1.12	3/1432 (0.2%)
1	BBB	1.11	2/1016 (0.2%)	1.12	4/1367 (0.3%)
All	All	1.13	4/2079 (0.2%)	1.12	7/2799 (0.3%)

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	BBB	0	1

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	BBB	113	ASN	CG-ND2	12.17	1.58	1.33
1	AAA	20	ALA	C-O	10.96	1.37	1.24
1	BBB	105	HIS	CE1-NE2	-5.32	1.27	1.32
1	AAA	17	THR	C-O	-5.26	1.17	1.24

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BBB	113	ASN	OD1-CG-ND2	8.76	131.36	122.60
1	BBB	113	ASN	CA-CB-CG	7.35	119.95	112.60
1	BBB	113	ASN	CB-CG-ND2	-6.86	106.11	116.40
1	AAA	17	THR	CA-C-O	-6.67	113.49	120.70
1	AAA	19	ALA	O-C-N	5.45	129.59	123.48
1	AAA	18	SER	CA-C-O	-5.30	112.74	119.31
1	BBB	12	HIS	CB-CG-CD2	-5.30	124.31	131.20

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	BBB	113	ASN	Sidechain

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	AAA	1045	0	973	45	0
1	BBB	1000	0	935	9	0
2	AAA	19	0	0	3	0
3	AAA	12	0	0	0	0
4	BBB	28	0	0	7	0
5	AAA	262	0	0	21	0
5	BBB	232	0	0	6	0
All	All	2598	0	1908	62	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 15.

All (62) 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:AAA:17:THR:HG23	5:AAA:389[B]:HOH:O	1.21	1.28
1:AAA:119[B]:HIS:CD2	5:AAA:309[B]:HOH:O	1.99	1.14
1:AAA:98:LYS:HE3	1:AAA:99:THR:H	1.16	1.10
1:AAA:98:LYS:HE3	1:AAA:99:THR:N	1.66	1.08
1:AAA:20:ALA:O	1:AAA:21:SER:O	1.72	1.04
1:AAA:16[A]:SER:HB2	5:AAA:372[A]:HOH:O	1.56	1.03
1:AAA:98:LYS:HE2	5:AAA:370:HOH:O	1.59	1.02
1:AAA:20:ALA:H	1:AAA:101:GLN:NE2	1.60	1.00
1:AAA:98:LYS:CE	1:AAA:99:THR:H	1.82	0.92
1:AAA:17:THR:CG2	5:AAA:389[B]:HOH:O	1.93	0.91
1:AAA:17:THR:CB	5:AAA:306:HOH:O	2.25	0.84
2:AAA:201[A]:F5T:C4	5:AAA:436[A]:HOH:O	2.26	0.84
1:AAA:17:THR:HG21	5:AAA:306:HOH:O	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BBB:32:SER:OG	5:BBB:301[A]:HOH:O	2.03	0.77
4:BBB:201[A]:F5I:O5	4:BBB:201[A]:F5I:O6	2.04	0.76
1:AAA:20:ALA:HB3	1:AAA:101:GLN:HB2	1.68	0.74
1:AAA:43:VAL:HG12	1:AAA:85[B]:ARG:HD3	1.68	0.73
1:AAA:21:SER:HB2	5:AAA:306:HOH:O	1.89	0.71
1:BBB:101:GLN:OE1	5:BBB:302[A]:HOH:O	2.08	0.71
4:BBB:201[A]:F5I:C4	5:BBB:436:HOH:O	2.38	0.71
1:AAA:17:THR:CG2	5:AAA:306:HOH:O	2.38	0.70
1:AAA:20:ALA:N	1:AAA:101:GLN:NE2	2.37	0.70
1:AAA:19:ALA:O	1:AAA:21:SER:N	2.26	0.69
1:AAA:20:ALA:H	1:AAA:101:GLN:HE22	1.41	0.69
1:AAA:20:ALA:CB	1:AAA:101:GLN:HE21	2.06	0.68
1:AAA:20:ALA:C	1:AAA:21:SER:O	2.36	0.68
1:AAA:101:GLN:HG3	5:AAA:323:HOH:O	1.94	0.68
2:AAA:201[A]:F5T:C4	5:AAA:478:HOH:O	2.43	0.67
1:AAA:100[A]:THR:O	1:AAA:100[A]:THR:HG23	1.96	0.66
1:AAA:17:THR:HB	5:AAA:306:HOH:O	1.94	0.64
1:AAA:20:ALA:HB2	1:AAA:101:GLN:HE21	1.63	0.62
1:AAA:91[A]:LYS:NZ	5:AAA:304:HOH:O	2.32	0.62
1:BBB:12:HIS:HD2	1:BBB:45:THR:O	1.82	0.61
1:AAA:109:ALA:HB3	1:AAA:119[A]:HIS:HB3	1.83	0.60
4:BBB:201[B]:F5I:O3	4:BBB:201[B]:F5I:O4	2.21	0.59
1:AAA:61:LYS:HE3	5:AAA:493:HOH:O	2.02	0.58
1:BBB:119:HIS:HB2	4:BBB:201[A]:F5I:O7	2.03	0.58
1:AAA:98:LYS:CE	1:AAA:99:THR:N	2.50	0.58
1:AAA:24[B]:ASN:ND2	1:AAA:27:ASN:HD22	2.01	0.58
4:BBB:201[B]:F5I:O5	4:BBB:201[B]:F5I:O6	2.23	0.57
4:BBB:201[B]:F5I:C2	5:BBB:465:HOH:O	2.54	0.55
1:AAA:21:SER:HB2	5:AAA:358:HOH:O	2.07	0.54
1:AAA:19:ALA:O	1:AAA:20:ALA:C	2.49	0.54
1:AAA:23[B]:SER:HB3	5:AAA:382:HOH:O	2.09	0.53
1:AAA:20:ALA:CB	1:AAA:101:GLN:HB2	2.37	0.53
1:AAA:16[A]:SER:CB	5:AAA:372[A]:HOH:O	2.33	0.52
1:AAA:119[B]:HIS:HD2	5:AAA:309[B]:HOH:O	1.61	0.51
1:AAA:21:SER:CB	5:AAA:358:HOH:O	2.59	0.51
1:AAA:98:LYS:HE3	1:AAA:99:THR:CA	2.41	0.49
1:AAA:98:LYS:NZ	1:AAA:99:THR:H	2.10	0.49
1:AAA:100[A]:THR:O	1:AAA:100[A]:THR:CG2	2.61	0.48
1:BBB:15[A]:SER:O	1:BBB:16:SER:C	2.60	0.44
1:BBB:92:TYR:CD1	1:BBB:93:PRO:HA	2.53	0.44
1:BBB:16:SER:HB3	5:BBB:424:HOH:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AAA:11:GLN:NE2	2:AAA:201[A]:F5T:C2	2.81	0.43
1:AAA:91[A]:LYS:CE	5:AAA:304:HOH:O	2.66	0.43
1:BBB:111[B]:GLU:CG	1:BBB:112:GLY:N	2.82	0.43
1:AAA:24[B]:ASN:HD22	1:AAA:27:ASN:HD22	1.63	0.43
1:AAA:23[B]:SER:O	1:AAA:98:LYS:NZ	2.52	0.42
1:AAA:91[B]:LYS:O	1:AAA:92:TYR:C	2.63	0.41
1:BBB:25:TYR:CZ	1:BBB:29:MET:HG3	2.55	0.41
4:BBB:201[A]:F5I:C2	5:BBB:331:HOH:O	2.69	0.40

There are no symmetry-related clashes.

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	AAA	134/124 (108%)	129 (96%)	3 (2%)	2 (2%)	8	0
1	BBB	125/124 (101%)	118 (94%)	7 (6%)	0	100	100
All	All	259/248 (104%)	247 (95%)	10 (4%)	2 (1%)	16	2

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	AAA	20	ALA
1	AAA	21	SER

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	AAA	120/109 (110%)	117 (98%)	3 (2%)	42 7
1	BBB	116/109 (106%)	116 (100%)	0	100 100
All	All	236/218 (108%)	233 (99%)	3 (1%)	70 23

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AAA	16[A]	SER
1	AAA	16[B]	SER
1	AAA	98	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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](#)

4 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	F5T	AAA	201[A]	1,5	6,21,21	1.37	0	3,41,41	1.13	0
4	F5I	BBB	201[B]	1,5	2,15,15	1.30	0	0,30,30	-	-
4	F5I	BBB	201[A]	1,5	2,15,15	1.16	0	0,30,30	-	-
3	F3I	AAA	202	1,5	1,12,12	3.68	1 (100%)	0,25,25	-	-

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	F5T	AAA	201[A]	1,5	-	3/6/58/58	0/3/3/3
4	F5I	BBB	201[B]	1,5	-	-	0/2/2/2
4	F5I	BBB	201[A]	1,5	-	-	0/2/2/2
3	F3I	AAA	202	1,5	-	-	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	AAA	202	F3I	C2-C1	3.68	1.60	1.50

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	AAA	201[A]	F5T	O0-C5-C6-F1
2	AAA	201[A]	F5T	O0-C5-C6-F2
2	AAA	201[A]	F5T	O0-C5-C6-F3

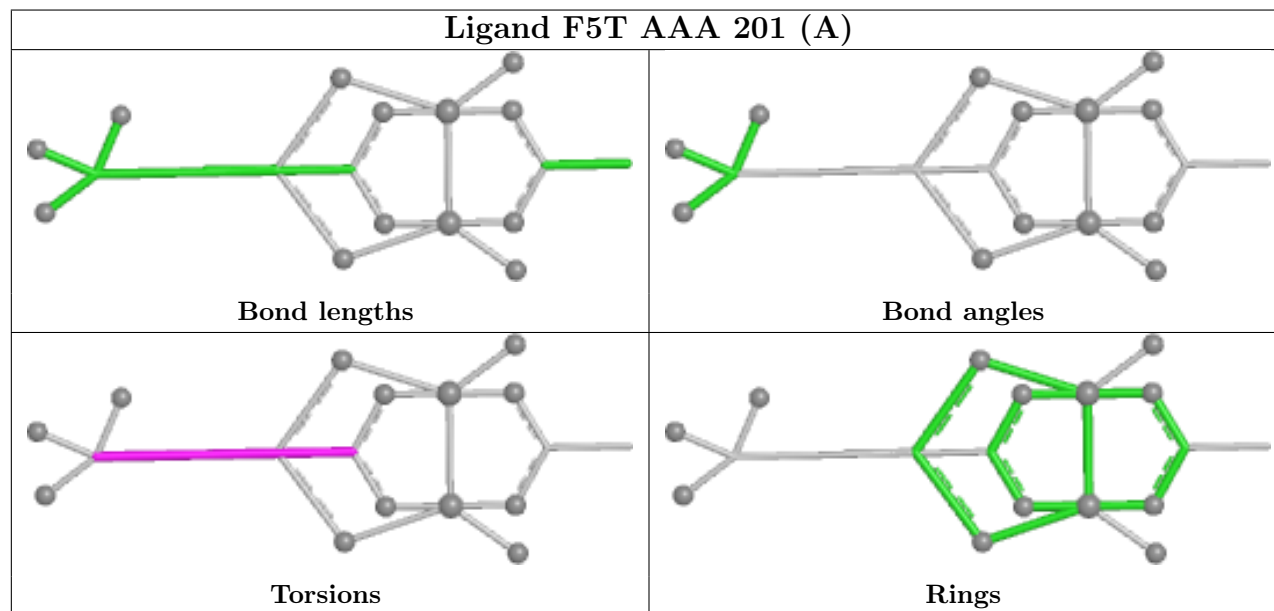
There are no ring outliers.

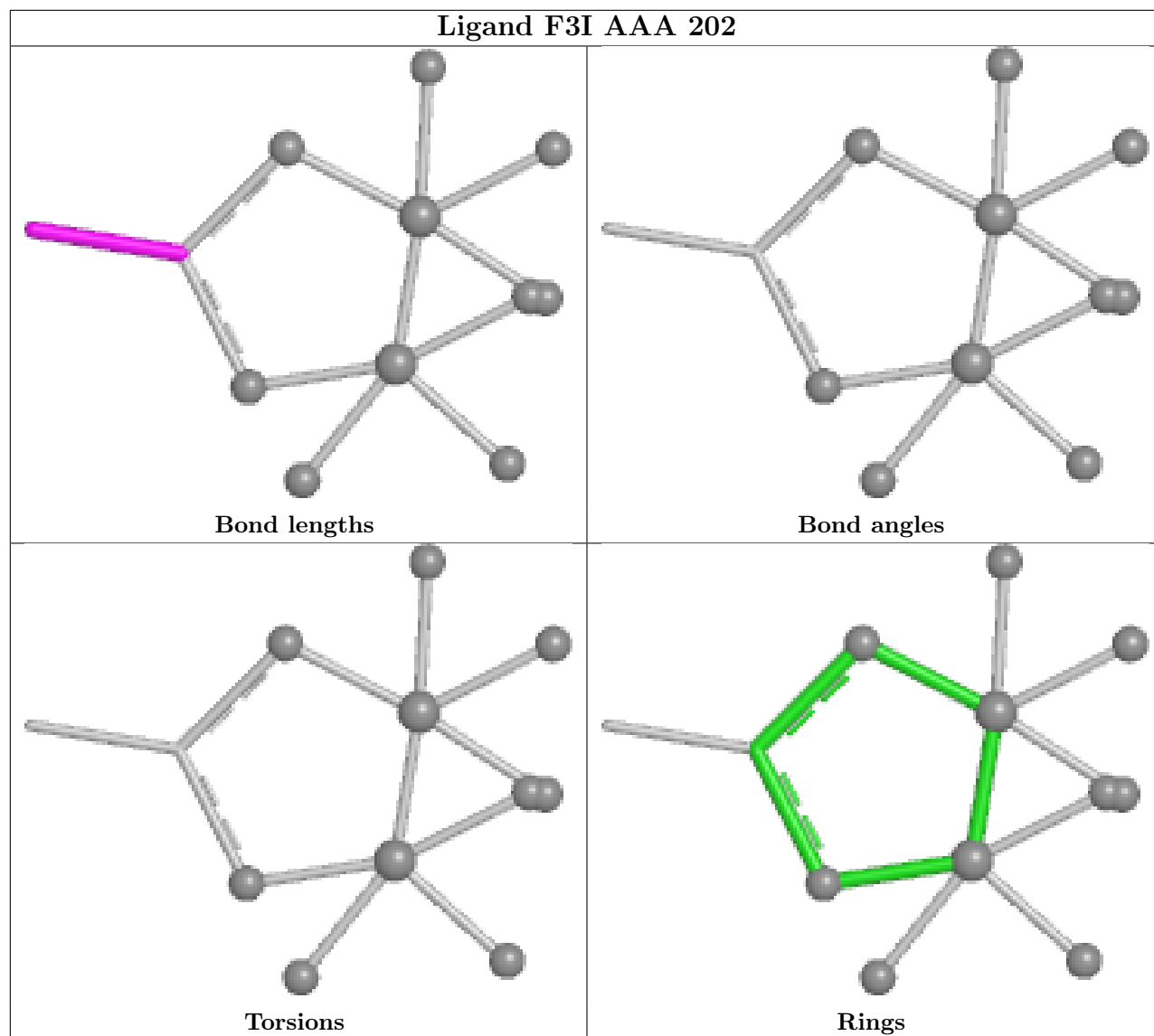
3 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	AAA	201[A]	F5T	3	0
4	BBB	201[B]	F5I	3	0
4	BBB	201[A]	F5I	4	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 [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, 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	AAA	124/124 (100%)	0.35	10 (8%)	18 25	5, 13, 38, 106	12 (9%)
1	BBB	121/124 (97%)	0.19	6 (4%)	34 42	5, 13, 37, 67	8 (6%)
All	All	245/248 (98%)	0.27	16 (6%)	25 33	5, 13, 39, 106	20 (8%)

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	AAA	20	ALA	9.4
1	AAA	21	SER	7.1
1	AAA	19	ALA	4.9
1	AAA	1	LYS	4.7
1	AAA	17	THR	4.5
1	BBB	17	THR	4.1
1	AAA	18	SER	3.6
1	BBB	113	ASN	3.3
1	AAA	100[A]	THR	2.9
1	BBB	21	SER	2.8
1	AAA	88	GLY	2.7
1	AAA	16[A]	SER	2.7
1	BBB	31	LYS	2.6
1	BBB	16	SER	2.4
1	AAA	22	SER	2.2
1	BBB	32	SER	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](#)

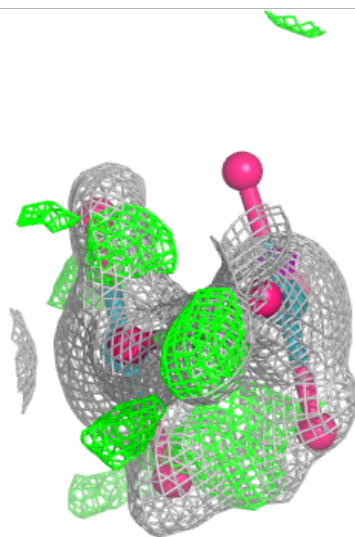
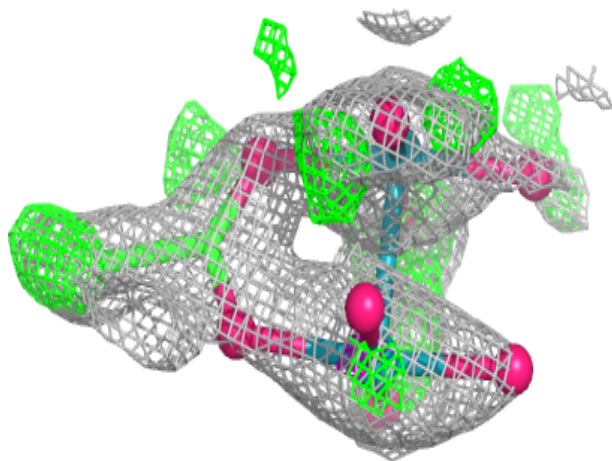
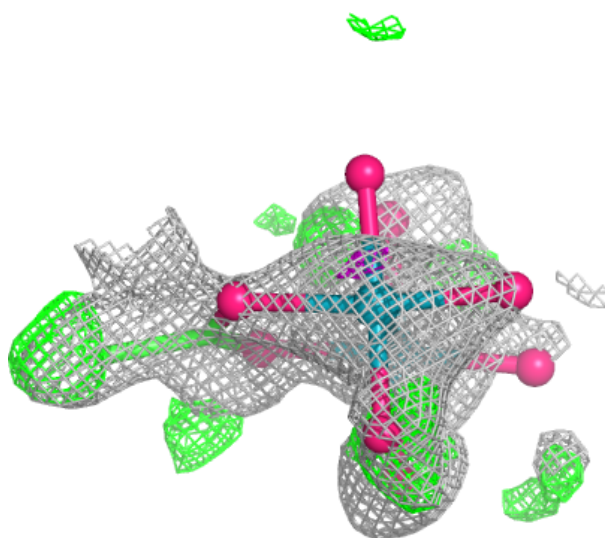
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

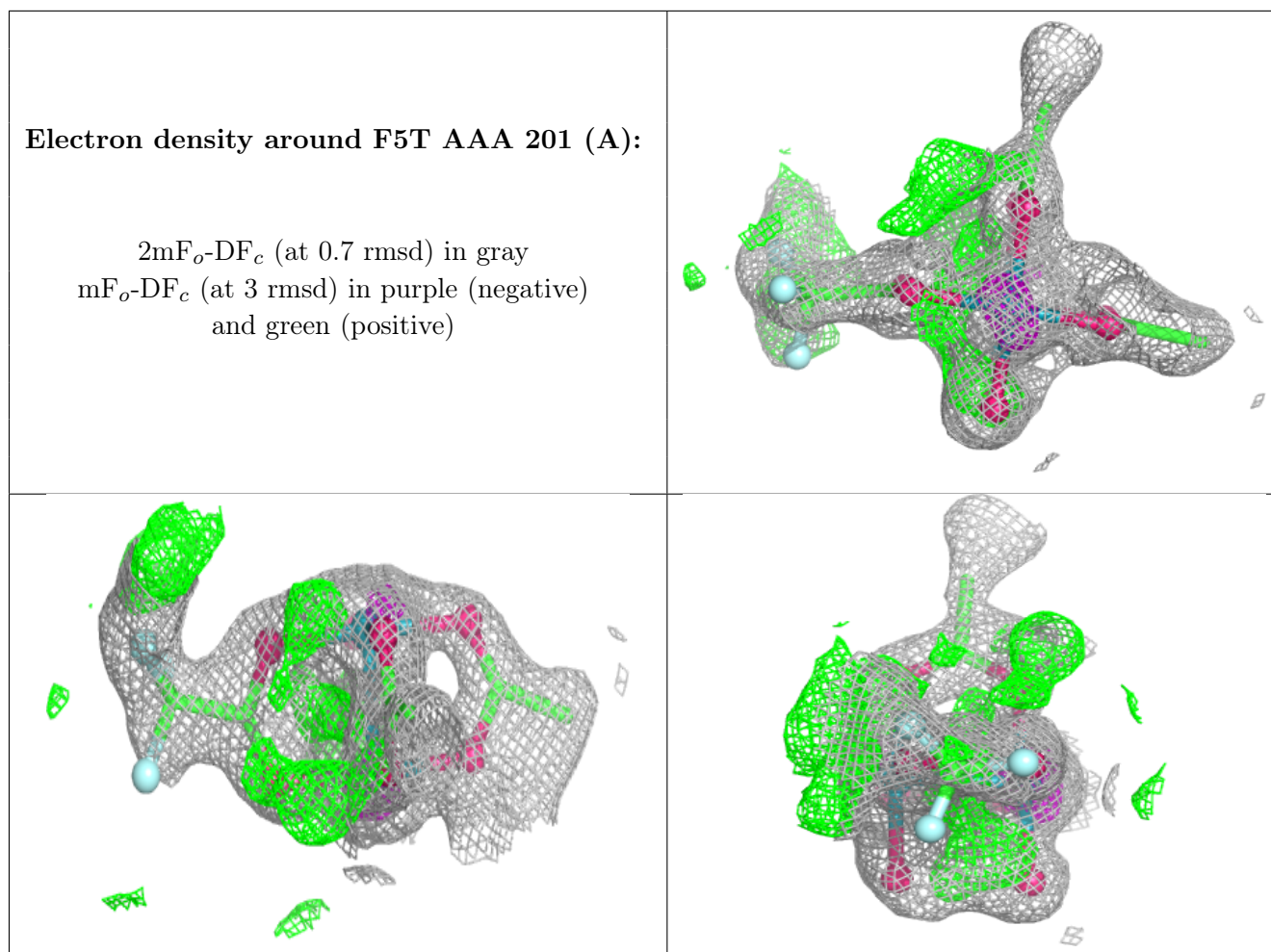
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	F3I	AAA	202	12/12	0.96	0.15	15,27,32,35	12
4	F5I	BBB	201[A]	14/14	0.96	0.13	13,15,20,20	14
4	F5I	BBB	201[B]	14/14	0.96	0.13	11,17,22,22	14
2	F5T	AAA	201[A]	19/19	0.99	0.10	14,20,47,59	19

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 F3I AAA 202:

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





6.5 Other polymers [i](#)

There are no such residues in this entry.