



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 09:27 PM UTC

PDB ID : 7FL5 / pdb_00007fl5
Title : PanDDA analysis group deposition – Aar2/RNaseH in complex with fragment P04H07 from the F2X-Universal Library
Authors : Barthel, T.; Wollenhaupt, J.; Lima, G.M.A.; Wahl, M.C.; Weiss, M.S.
Deposited on : 2022-08-26
Resolution : 1.89 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

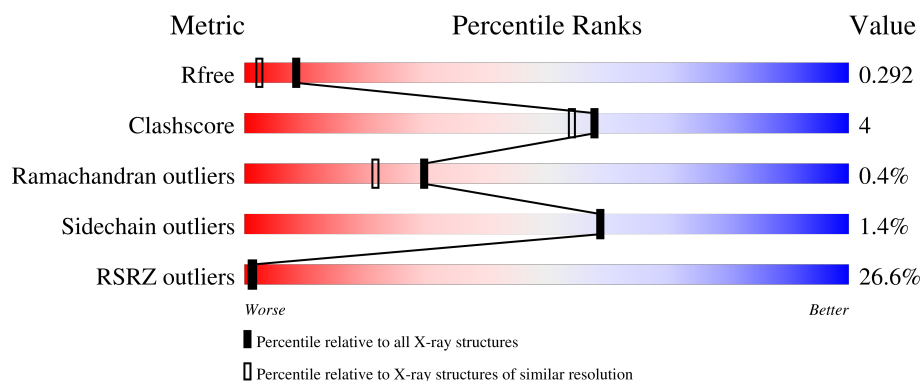
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.89 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	7789 (1.90-1.90)
Clashscore	190562	8410 (1.90-1.90)
Ramachandran outliers	187476	8333 (1.90-1.90)
Sidechain outliers	187428	8333 (1.90-1.90)
RSRZ outliers	180081	7790 (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	A	258	21% 81% 10% 8%
2	B	308	29% 85% 12%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 9208 atoms, of which 4539 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 Pre-mRNA-splicing factor 8.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
1	A	237	4068	1287	2060	336	373	12	0	21	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1833	GLY	-	expression tag	UNP P33334
A	1834	ALA	-	expression tag	UNP P33334
A	1835	MET	-	expression tag	UNP P33334

- Molecule 2 is a protein called A1 cistron-splicing factor AAR2.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
2	B	300	5044	1654	2464	421	485	20	0	17	0

There are 20 discrepancies between the modelled and reference sequences:

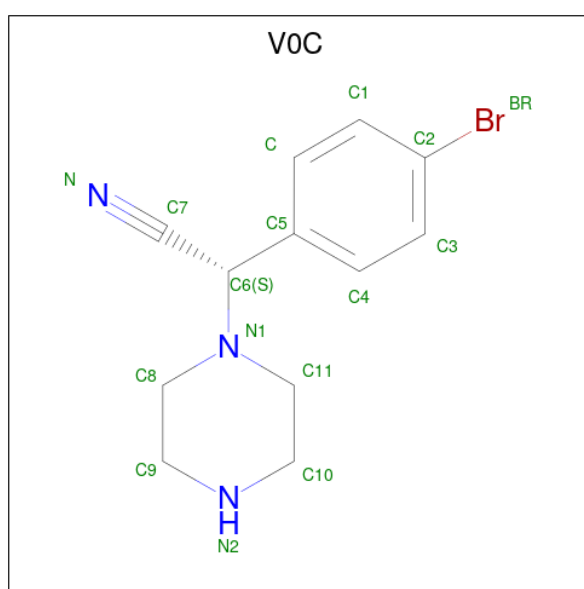
Chain	Residue	Modelled	Actual	Comment	Reference
B	-3	GLY	-	expression tag	UNP P32357
B	-2	ALA	-	expression tag	UNP P32357
B	-1	MET	-	expression tag	UNP P32357
B	0	ALA	-	expression tag	UNP P32357
B	166	SER	LEU	conflict	UNP P32357
B	167	SER	LYS	conflict	UNP P32357
B	?	-	LEU	deletion	UNP P32357
B	?	-	GLN	deletion	UNP P32357
B	?	-	LYS	deletion	UNP P32357
B	?	-	ALA	deletion	UNP P32357
B	?	-	GLY	deletion	UNP P32357
B	?	-	SER	deletion	UNP P32357
B	?	-	LYS	deletion	UNP P32357

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Chain	Residue	Modelled	Actual	Comment	Reference
B	?	-	MET	deletion	UNP P32357
B	?	-	GLU	deletion	UNP P32357
B	?	-	ALA	deletion	UNP P32357
B	?	-	LYS	deletion	UNP P32357
B	?	-	ASN	deletion	UNP P32357
B	?	-	GLU	deletion	UNP P32357
B	170	SER	ASP	conflict	UNP P32357

- Molecule 3 is (2S)-(4-bromophenyl)(piperazin-1-yl)acetonitrile (CCD ID: V0C) (formula: $C_{12}H_{14}BrN_3$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	B	1	Total	Br	C	H	N	0	0
			31	1	12	15	3		

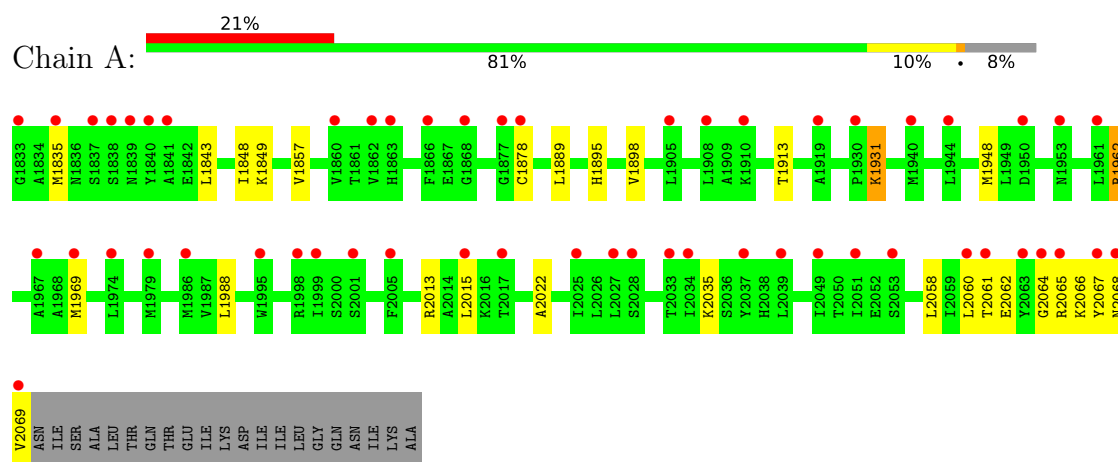
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	34	Total	O	0	0
			34	34		
4	B	31	Total	O	0	0
			31	31		

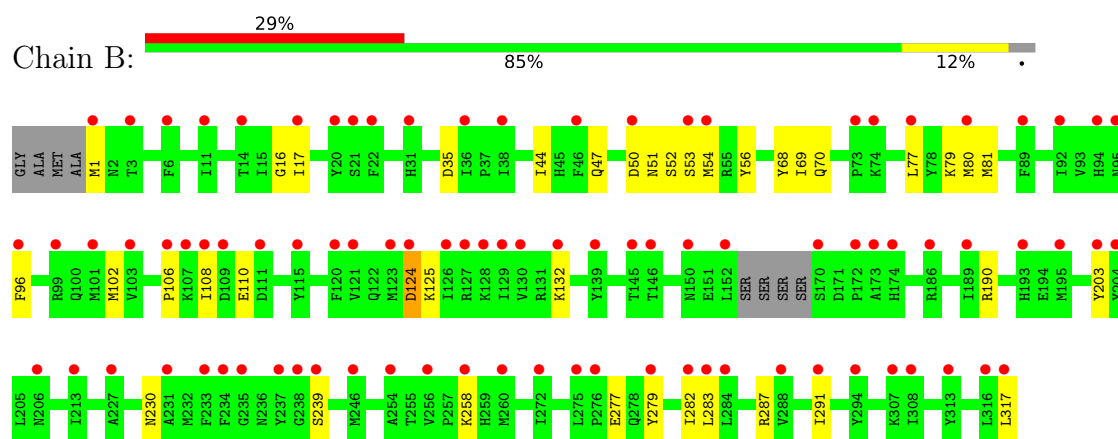
3 Residue-property plots [i](#)

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: Pre-mRNA-splicing factor 8



• Molecule 2: A1 cistron-splicing factor AAR2



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	89.67Å 81.67Å 92.93Å 90.00° 108.43° 90.00°	Depositor
Resolution (Å)	42.54 – 1.89 42.54 – 1.90	Depositor EDS
% Data completeness (in resolution range)	99.4 (42.54-1.89) 99.5 (42.54-1.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.96 (at 1.89Å)	Xtriage
Refinement program	PHENIX 1.17.1 _3660	Depositor
R, R_{free}	0.243 , 0.283 0.261 , 0.292	Depositor DCC
R_{free} test set	2100 reflections (4.18%)	wwPDB-VP
Wilson B-factor (Å ²)	45.4	Xtriage
Anisotropy	0.330	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 47.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	9208	wwPDB-VP
Average B, all atoms (Å ²)	75.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.74% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: V0C

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	0.68	1/2149 (0.0%)	0.81	0/2911
2	B	0.73	3/2739 (0.1%)	0.86	4/3699 (0.1%)
All	All	0.71	4/4888 (0.1%)	0.84	4/6610 (0.1%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	230[A]	ASN	C-O	8.61	1.34	1.24
2	B	230[B]	ASN	C-O	8.61	1.34	1.24
2	B	239	SER	C-O	-5.88	1.17	1.24
1	A	1889	LEU	CG-CD1	5.67	1.71	1.52

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	230[A]	ASN	CA-C-O	7.97	129.11	120.10
2	B	230[B]	ASN	CA-C-O	7.97	129.11	120.10
2	B	230[A]	ASN	N-CA-C	5.24	117.73	111.71
2	B	230[B]	ASN	N-CA-C	5.24	117.73	111.71

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	A	2008	2060	1974	16	0
2	B	2580	2464	2398	23	0
3	B	16	15	0	1	0
4	A	34	0	0	0	0
4	B	31	0	0	3	0
All	All	4669	4539	4372	41	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 4.

All (41) 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:1962:ARG:O	1:A:2013:ARG:NH1	2.08	0.87
2:B:1:MET:N	4:B:501:HOH:O	2.11	0.82
2:B:70:GLN:HB3	2:B:81:MET:HE2	1.66	0.76
1:A:2062:GLU:OE1	1:A:2065:ARG:NH1	2.31	0.64
2:B:96:PHE:HB2	2:B:102:MET:HE3	1.82	0.60
2:B:68:TYR:CE2	2:B:81:MET:HE3	2.36	0.60
2:B:258:LYS:HD2	2:B:258:LYS:H	1.67	0.59
1:A:2058:LEU:C	1:A:2058:LEU:HD23	2.29	0.57
1:A:1848:ILE:H	1:A:1931[A]:LYS:HZ2	1.52	0.56
1:A:2064:GLY:O	1:A:2068:ASN:N	2.37	0.55
2:B:77:LEU:HD21	2:B:79:LYS:HE3	1.88	0.55
2:B:50:ASP:OD1	2:B:51:ASN:N	2.42	0.53
1:A:1895:HIS:O	1:A:1898[A]:VAL:HG22	2.10	0.51
1:A:2069:VAL:HG12	1:A:2069:VAL:O	2.10	0.51
3:B:401:VOC:C11	3:B:401:VOC:C	2.87	0.51
1:A:1878:CYS:SG	1:A:1969:MET:HE3	2.53	0.49
2:B:54[A]:MET:HE3	2:B:56:TYR:CD1	2.47	0.48
1:A:1843:LEU:HA	1:A:1849:LYS:HD2	1.95	0.48
2:B:279:TYR:HB3	2:B:283:LEU:HD12	1.96	0.47
2:B:54[A]:MET:HE1	4:B:527:HOH:O	2.16	0.46
2:B:110:GLU:HG2	2:B:110:GLU:O	2.16	0.45
2:B:108:ILE:HD13	2:B:108:ILE:N	2.31	0.45
1:A:2015:LEU:HD23	1:A:2022:ALA:HB3	1.99	0.45
2:B:277:GLU:CD	2:B:277:GLU:H	2.25	0.45
1:A:2061:THR:O	1:A:2064:GLY:N	2.48	0.45
2:B:47:GLN:NE2	2:B:52:SER:O	2.49	0.44
2:B:124:ASP:OD2	2:B:125:LYS:HD3	2.18	0.43
2:B:287:ARG:O	2:B:291:ILE:HD13	2.19	0.43
2:B:69:ILE:HD13	2:B:80:MET:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1948:MET:HE3	1:A:1948:MET:HB3	1.84	0.42
1:A:1857:VAL:HG21	1:A:1913:THR:OG1	2.20	0.42
2:B:17:ILE:HD12	2:B:44[B]:ILE:HG13	2.02	0.42
2:B:51:ASN:HD21	2:B:53:SER:HB2	1.85	0.42
2:B:190:ARG:HG3	2:B:203[B]:TYR:CE2	2.55	0.41
2:B:17:ILE:CD1	2:B:44[B]:ILE:HG13	2.51	0.41
1:A:2035:LYS:HA	1:A:2035:LYS:HD3	1.93	0.40
1:A:2066:LYS:HD2	1:A:2067:TYR:CE1	2.56	0.40
2:B:1:MET:HB3	2:B:35:ASP:HA	2.04	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	Percentiles	
1	A	258/258 (100%)	249 (96%)	9 (4%)	0	100	100
2	B	315/308 (102%)	304 (96%)	9 (3%)	2 (1%)	21	13
All	All	573/566 (101%)	553 (96%)	18 (3%)	2 (0%)	30	29

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	132	LYS
2	B	106	PRO

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	237/233 (102%)	232 (98%)	5 (2%)	47	44
2	B	294/284 (104%)	291 (99%)	3 (1%)	68	70
All	All	531/517 (103%)	523 (98%)	8 (2%)	59	56

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

Mol	Chain	Res	Type
1	A	1931[A]	LYS
1	A	1931[B]	LYS
1	A	1962	ARG
1	A	1988	LEU
1	A	2060	LEU
2	B	124	ASP
2	B	282	ILE
2	B	317	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
2	B	94	HIS
2	B	135	ASN
2	B	259	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

1 ligand is 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
3	V0C	B	401	-	16,17,17	0.29	0	17,22,22	0.39	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
3	V0C	B	401	-	-	1/8/18/18	1/2/2/2

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	401	V0C	C4-C5-C6-C7

All (1) ring outliers are listed below:

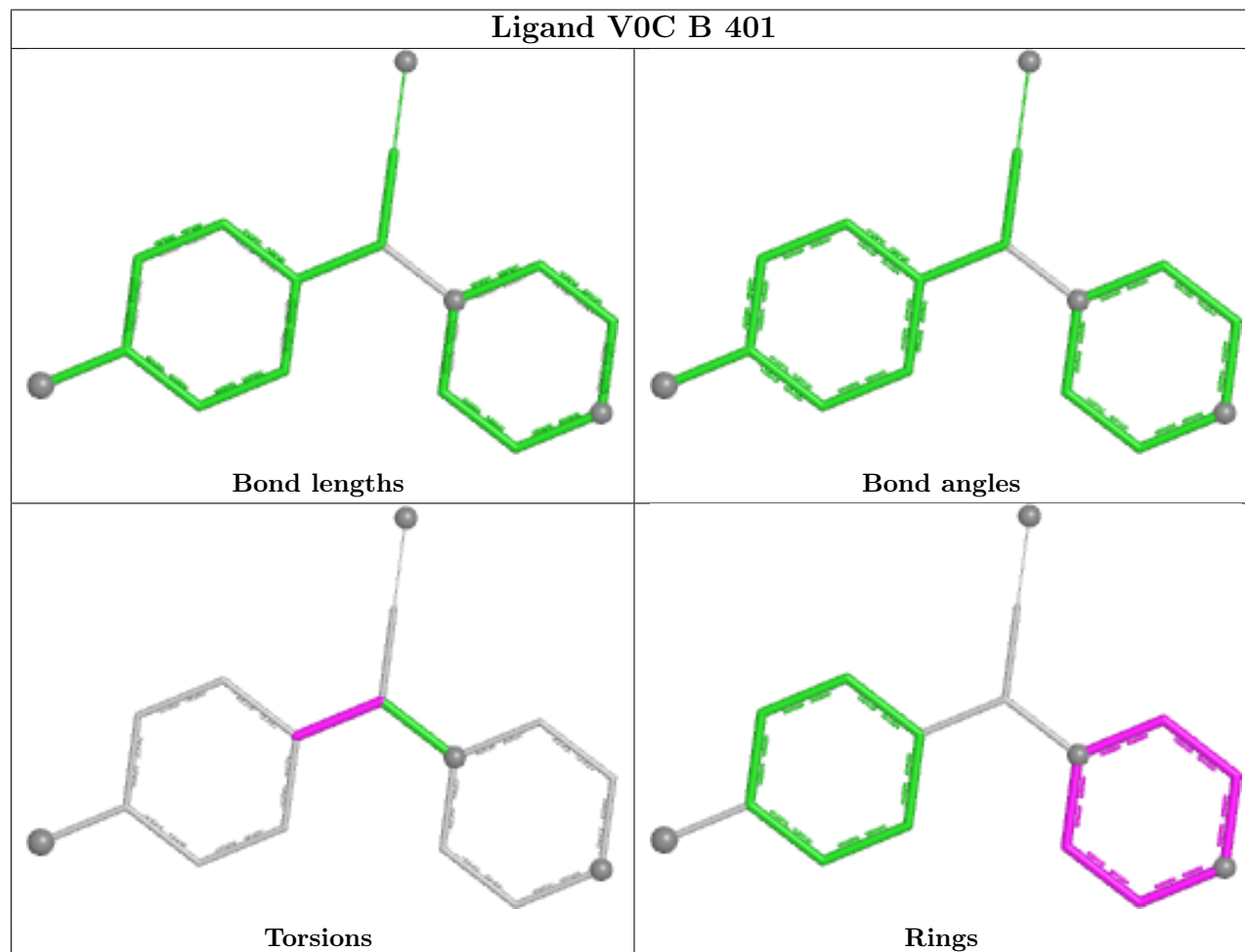
Mol	Chain	Res	Type	Atoms
3	B	401	V0C	C10-C11-C8-C9-N1-N2

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	401	V0C	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 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	237/258 (91%)	1.48	54 (22%)	2 2	23, 68, 117, 171	12 (5%)
2	B	300/308 (97%)	1.61	89 (29%)	1 1	23, 71, 121, 188	9 (3%)
All	All	537/566 (94%)	1.55	143 (26%)	1 1	23, 69, 118, 188	21 (3%)

All (143) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1878	CYS	7.6
1	A	1979[A]	MET	7.5
1	A	2069	VAL	6.4
1	A	2060	LEU	5.6
2	B	111	ASP	5.6
2	B	101	MET	5.3
2	B	203[A]	TYR	5.3
2	B	152	LEU	5.2
2	B	283	LEU	4.8
1	A	2064	GLY	4.7
2	B	237	TYR	4.6
2	B	170	SER	4.6
1	A	1940	MET	4.5
2	B	54[A]	MET	4.4
2	B	1	MET	4.4
2	B	316	LEU	4.4
1	A	2063	TYR	4.4
2	B	121	VAL	4.0
2	B	275	LEU	3.9
2	B	129	ILE	3.9
2	B	282	ILE	3.8
2	B	272	ILE	3.7
2	B	174	HIS	3.7
1	A	1860	VAL	3.7

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Mol	Chain	Res	Type	RSRZ
2	B	235	GLY	3.6
1	A	2015	LEU	3.6
2	B	21	SER	3.5
1	A	1866	PHE	3.5
2	B	80	MET	3.5
2	B	172	PRO	3.4
2	B	279	TYR	3.4
2	B	103	VAL	3.4
1	A	2049	ILE	3.4
1	A	2051	ILE	3.3
1	A	2068	ASN	3.3
1	A	1840	TYR	3.3
2	B	195	MET	3.3
1	A	1833	GLY	3.3
2	B	11	ILE	3.3
2	B	234	PHE	3.2
1	A	2037	TYR	3.2
2	B	126	ILE	3.2
2	B	74	LYS	3.2
1	A	1908	LEU	3.2
1	A	2067	TYR	3.1
1	A	1862	VAL	3.1
1	A	1944	LEU	3.1
2	B	108	ILE	3.1
2	B	308	ILE	3.1
2	B	288	VAL	3.1
2	B	120	PHE	3.1
1	A	2061	THR	3.1
2	B	173	ALA	3.0
2	B	89	PHE	3.0
2	B	227	ALA	3.0
2	B	254	ALA	3.0
1	A	1877	GLY	2.9
2	B	38	ILE	2.9
2	B	17	ILE	2.9
1	A	1974	LEU	2.8
2	B	284	LEU	2.8
2	B	130	VAL	2.8
1	A	2028	SER	2.8
2	B	123[A]	MET	2.8
2	B	256	VAL	2.8
2	B	132	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
2	B	31	HIS	2.7
2	B	92	ILE	2.7
2	B	233	PHE	2.7
1	A	1863	HIS	2.7
1	A	1995	TRP	2.7
1	A	2039	LEU	2.7
2	B	291	ILE	2.7
1	A	1967	ALA	2.6
1	A	2017[A]	THR	2.6
2	B	6	PHE	2.6
2	B	73	PRO	2.6
2	B	317	LEU	2.6
2	B	146	THR	2.6
1	A	1835	MET	2.6
2	B	94	HIS	2.5
2	B	139	TYR	2.5
2	B	246	MET	2.5
1	A	2034	ILE	2.5
1	A	1841	ALA	2.5
1	A	2027	LEU	2.5
2	B	313	TYR	2.4
2	B	96	PHE	2.4
2	B	231	ALA	2.4
2	B	109	ASP	2.4
2	B	106	PRO	2.4
1	A	1839	ASN	2.4
2	B	3	THR	2.4
2	B	150	ASN	2.4
2	B	239	SER	2.4
2	B	294	TYR	2.3
1	A	2025	ILE	2.3
2	B	22	PHE	2.3
2	B	46	PHE	2.3
1	A	1953	ASN	2.3
2	B	189	ILE	2.3
1	A	1930	PRO	2.3
1	A	2001[A]	SER	2.3
2	B	95	ASN	2.3
2	B	193	HIS	2.3
2	B	276	PRO	2.3
1	A	1999	ILE	2.3
2	B	127	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
2	B	206	ASN	2.3
1	A	2033	THR	2.3
1	A	1998	ARG	2.2
2	B	99	ARG	2.2
2	B	238	GLY	2.2
1	A	1986	MET	2.2
2	B	260	MET	2.2
2	B	145	THR	2.2
1	A	1905	LEU	2.2
2	B	115	TYR	2.2
1	A	1969	MET	2.2
1	A	2065	ARG	2.2
1	A	1961[A]	LEU	2.2
2	B	77	LEU	2.2
2	B	20	TYR	2.2
2	B	36	ILE	2.2
2	B	213	ILE	2.2
2	B	128	LYS	2.2
1	A	1950	ASP	2.2
1	A	2053[A]	SER	2.1
2	B	53	SER	2.1
2	B	186	ARG	2.1
1	A	2005	PHE	2.1
2	B	50	ASP	2.1
2	B	124	ASP	2.1
1	A	1837	SER	2.1
1	A	1838	SER	2.1
2	B	107	LYS	2.1
2	B	204[A]	TYR	2.1
1	A	1919[A]	ALA	2.1
1	A	1910	LYS	2.0
2	B	258	LYS	2.0
2	B	14	THR	2.0
1	A	1868	GLY	2.0
2	B	307	LYS	2.0

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 [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

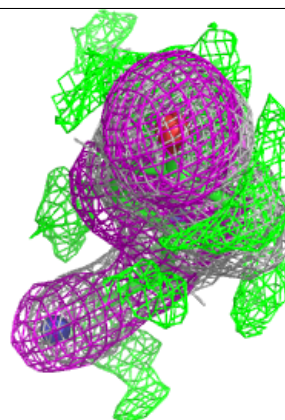
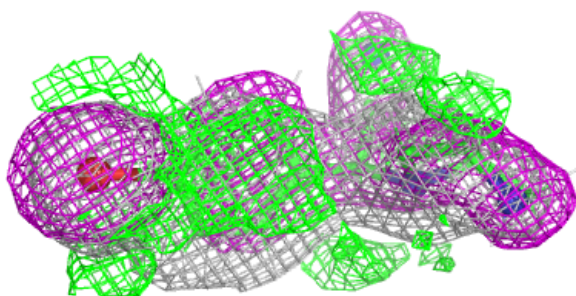
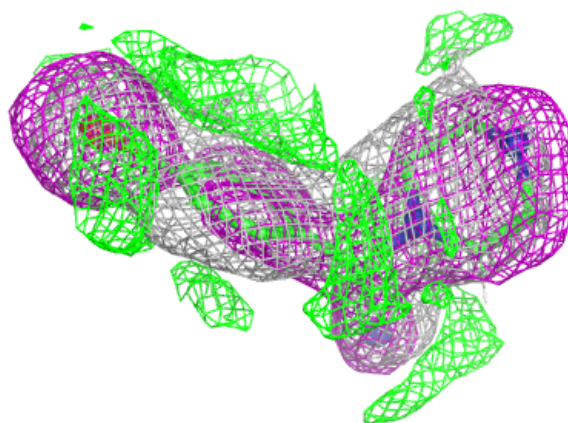
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	V0C	B	401	16/16	0.89	0.20	30,30,30,30	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.

Electron density around V0C 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)



6.5 Other polymers [i](#)

There are no such residues in this entry.