

Full wwPDB X-ray Structure Validation Report (i)

Jun 17, 2024 – 11:48 PM EDT

PDB ID : 5QYD

Title : PanDDA analysis group deposition – Aar2/RNaseH in complex with fragment

F2X-Entry E05a

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Deposited on : 2020-02-12

Resolution : 1.67 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 (i)) 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' : 2.37.1

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

Refmac : 5.8.0158

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

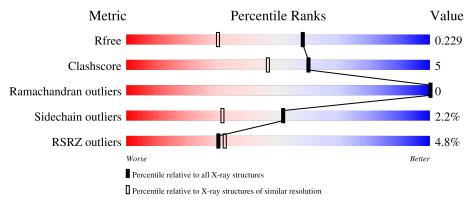
Validation Pipeline (wwPDB-VP) : 2.37.1

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 1.67 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	Similar resolution
Metric	$(\# ext{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	130704	6780 (1.70-1.66)
Clashscore	141614	7310 (1.70-1.66)
Ramachandran outliers	138981	7173 (1.70-1.66)
Sidechain outliers	138945	7172 (1.70-1.66)
RSRZ outliers	127900	6661 (1.70-1.66)

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	A	258	6% 84%	% • 8%				
2	В	308	89%	7% • •				



2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 5775 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 Pre-mRNA-splicing factor 8.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	237	Total 2706	C 1724	N 453	O 510	S 19	0	20	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.

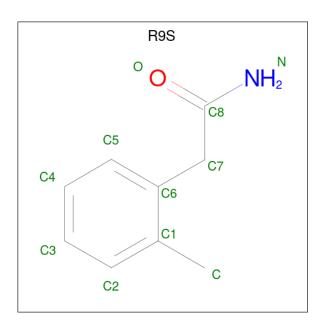
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
2	R	300	Total	С	N	О	S	0	Q	0
	D	300	2879	1838	473	540	28			

There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
В	-3	GLY	-	expression tag	UNP P32357
В	-2	ALA	-	expression tag	UNP P32357
В	-1	MET	-	expression tag	UNP P32357
В	0	ALA	-	expression tag	UNP P32357
В	166	SER	-	linker	UNP P32357
В	167	SER	-	linker	UNP P32357
В	168	SER	-	linker	UNP P32357
В	169	SER	-	linker	UNP P32357
В	170	SER	-	linker	UNP P32357

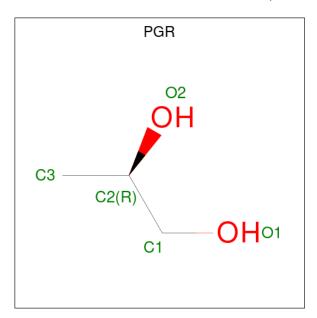
• Molecule 3 is 2-(2-methylphenyl)acetamide (three-letter code: R9S) (formula: $C_9H_{11}NO$) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
9	Λ	1	Total	С	N	О	0	1
3	A	1	33	27	3	3	U	1

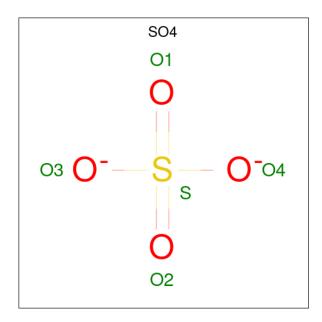
 \bullet Molecule 4 is R-1,2-PROPANEDIOL (three-letter code: PGR) (formula: $\mathrm{C_3H_8O_2}).$



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 5 3 2	0	0

 \bullet Molecule 5 is SULFATE ION (three-letter code: SO4) (formula: $\mathrm{O_4S}).$





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

• Molecule 6 is water.

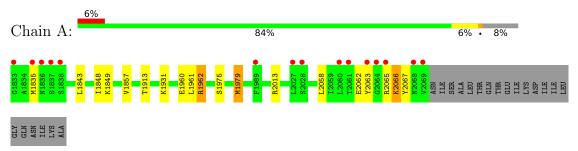
M	ol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	,	A	64	Total O 81 81	0	4
6	,	В	56	Total O 56 56	0	0



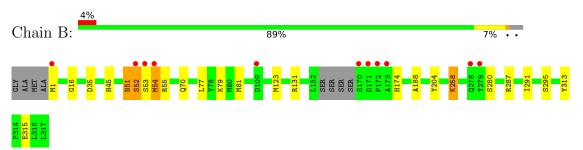
3 Residue-property plots (i)

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: Pre-mRNA-splicing factor 8



• Molecule 2: A1 cistron-splicing factor AAR2





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	88.22Å 82.14Å 94.09Å	Donositon
a, b, c, α , β , γ	90.00° 108.47° 90.00°	Depositor
Resolution (Å)	44.70 - 1.67	Depositor
Resolution (A)	44.66 - 1.67	EDS
% Data completeness	98.3 (44.70-1.67)	Depositor
(in resolution range)	98.4 (44.66-1.67)	EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	0.96 (at 1.67Å)	Xtriage
Refinement program	REFMAC 5.8.0238, PHENIX 1.16.3549	Depositor
D D.	0.220 , 0.221	Depositor
R, R_{free}	0.232 , 0.229	DCC
R_{free} test set	3661 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	33.5	Xtriage
Anisotropy	0.195	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34, 54.0	EDS
L-test for twinning ²	$< L > = 0.50, < L^2> = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5775	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.68% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $<L^2>$ 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: SO4, PGR, R9S

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		
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.70	0/2759	0.78	0/3734	
2	В	0.71	0/2950	0.78	1/3983 (0.0%)	
All	All	0.71	0/5709	0.78	1/7717 (0.0%)	

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
2	В	0	1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	123	MET	CG-SD-CE	5.09	108.35	100.20

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	В	52	SER	Peptide

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	asvmmetric	unit.	whereas S	Svmm-	Clashes	lists s	vmmetr	v-related	clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2706	0	2715	21	0
2	В	2879	0	2740	30	0
3	A	33	0	0	0	0
4	A	5	0	8	0	0
5	A	15	0	0	0	0
6	A	81	0	0	0	0
6	В	56	0	0	2	0
All	All	5775	0	5463	51	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.

All (51) 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:54[A]:MET:CE	2:B:54[A]:MET:HA	1.95	0.96
2:B:54[C]:MET:CE	2:B:54[C]:MET:HA	1.95	0.96
2:B:54[D]:MET:HA	2:B:54[D]:MET:CE	1.95	0.96
2:B:54[F]:MET:HA	2:B:54[F]:MET:CE	1.95	0.96
2:B:54[A]:MET:HA	2:B:54[A]:MET:HE3	1.67	0.75
2:B:54[C]:MET:HA	2:B:54[C]:MET:HE3	1.67	0.75
2:B:54[D]:MET:HA	2:B:54[D]:MET:HE3	1.67	0.75
2:B:54[F]:MET:HA	2:B:54[F]:MET:HE3	1.67	0.75
1:A:1960[B]:GLU:HA	1:A:1960[B]:GLU:OE1	1.91	0.69
1:A:1960[C]:GLU:HA	1:A:1960[C]:GLU:OE1	1.91	0.68
1:A:1960[E]:GLU:HA	1:A:1960[E]:GLU:OE1	1.91	0.68
1:A:1960[F]:GLU:OE1	1:A:1960[F]:GLU:HA	1.91	0.68
1:A:2062:GLU:O	1:A:2066:LYS:HG2	1.96	0.65
2:B:52:SER:C	6:B:401:HOH:O	2.39	0.60
2:B:54[C]:MET:HA	2:B:54[C]:MET:HE2	1.79	0.59
2:B:54[A]:MET:HA	2:B:54[A]:MET:HE2	1.79	0.59
2:B:54[D]:MET:HA	2:B:54[D]:MET:HE2	1.79	0.59
2:B:54[F]:MET:HA	2:B:54[F]:MET:HE2	1.79	0.59
2:B:1:MET:HB3	2:B:35:ASP:HA	1.84	0.58
2:B:70:GLN:HB3	2:B:81:MET:CE	2.34	0.58
1:A:1848:ILE:N	1:A:1931[F]:LYS:HE3	2.19	0.57
2:B:16:GLY:HA3	2:B:45:HIS:CE1	2.39	0.57
1:A:1848:ILE:N	1:A:1931[C]:LYS:HE3	2.19	0.56
1:A:1848:ILE:N	1:A:1931[D]:LYS:HE3	2.19	0.56
2:B:280:SER:CB	2:B:313:TYR:CE1	2.89	0.56

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Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	$\operatorname{distance}\ (ext{Å})$	overlap (Å)
1:A:1848:ILE:N	1:A:1931[A]:LYS:HE3	2.21	0.55
2:B:280:SER:HB3	2:B:313:TYR:CE1	2.42	0.55
2:B:77:LEU:HD21	2:B:79:LYS:HE3	1.89	0.55
1:A:2058:LEU:C	1:A:2058:LEU:HD23	2.30	0.52
2:B:54[B]:MET:HA	2:B:54[B]:MET:CE	2.39	0.52
2:B:51:ASN:HD22	2:B:52:SER:N	2.09	0.51
2:B:258:LYS:HD2	2:B:258:LYS:H	1.75	0.51
2:B:54[E]:MET:CE	2:B:54[E]:MET:HA	2.41	0.50
1:A:1857:VAL:HG21	1:A:1913:THR:OG1	2.12	0.48
2:B:287:ARG:O	2:B:291:ILE:HD13	2.14	0.47
1:A:1843:LEU:HA	1:A:1849:LYS:HD2	1.97	0.46
2:B:54[B]:MET:HA	2:B:54[B]:MET:HE3	1.96	0.46
2:B:54[E]:MET:HA	2:B:54[E]:MET:HE3	1.99	0.44
2:B:131:ARG:HA	6:B:412:HOH:O	2.19	0.43
1:A:1835:MET:HE1	1:A:1961:LEU:HD12	2.00	0.42
2:B:70:GLN:HB3	2:B:81:MET:HE1	2.00	0.42
1:A:1848:ILE:H	1:A:1931[C]:LYS:HE3	1.85	0.42
1:A:1848:ILE:H	1:A:1931[D]:LYS:HE3	1.85	0.42
1:A:1848:ILE:H	1:A:1931[F]:LYS:HE3	1.85	0.42
1:A:1962:ARG:O	1:A:2013:ARG:NH1	2.53	0.41
1:A:1975:SER:O	1:A:1979[A]:MET:SD	2.78	0.41
1:A:1962:ARG:HD3	1:A:1962:ARG:H	1.86	0.41
2:B:51:ASN:ND2	2:B:53:SER:H	2.19	0.41
2:B:188:ALA:HA	2:B:204:TYR:CD1	2.56	0.41
1:A:1848:ILE:H	1:A:1931[A]:LYS:HE3	1.86	0.41
1:A:2063:TYR:O	1:A:2067:TYR:HB2	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	$_{ m ntiles}$
1	A	$332/258 \ (129\%)$	328 (99%)	4 (1%)	0	100	100
2	В	341/308 (111%)	323 (95%)	18 (5%)	0	100	100
All	All	673/566 (119%)	651 (97%)	22 (3%)	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	Perce	ntiles
1	A	312/233 (134%)	303 (97%)	9 (3%)	42	21
2	В	322/284 (113%)	310 (96%)	12 (4%)	34	13
All	All	634/517 (123%)	613 (97%)	21 (3%)	52	16

All (21) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1962	ARG
1	A	1979[A]	MET
1	A	1979[B]	MET
1	A	1979[C]	MET
1	A	1979[D]	MET
1	A	1979[E]	MET
1	A	1979[F]	MET
1	A	2065	ARG
1	A	2066	LYS
2	В	51	ASN
2	В	54[A]	MET
2	В	54[B]	MET
2	В	54[C]	MET
2	В	54[D]	MET
2	В	54[E]	MET
2	В	54[F]	MET
2	В	55	ARG
2	В	174	HIS

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Mol	Chain	Res	Type
2	В	258	LYS
2	В	295	SER
2	В	315	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
2	В	51	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)

7 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	Mol Type Chain Res		Link	Bond lengths			В	Bond angles		
IVIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	R9S	A	2101[E]	-	11,11,11	0.42	0	14,14,14	0.82	0
5	SO4	A	2105	-	4,4,4	0.27	0	6,6,6	0.15	0
5	SO4	A	2103	-	4,4,4	0.44	0	6,6,6	0.16	0
3	R9S	A	2101[F]	-	11,11,11	0.42	0	14,14,14	0.82	0
5	SO4	A	2104	-	4,4,4	0.43	0	6,6,6	0.16	0



	Mol	Trunc	Chain	Res Link		Bond lengths		$ ag{ths}$	В	ond ang	les
	IVIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2
	3	R9S	A	2101[D]	-	11,11,11	0.44	0	14,14,14	0.81	0
ſ	4	PGR	A	2102	-	3,4,4	0.28	0	1,4,4	0.45	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	R9S	A	2101[D]	-	-	2/4/4/4	0/1/1/1
3	R9S	A	2101[F]	-	-	2/4/4/4	0/1/1/1
3	R9S	A	2101[E]	-	-	2/4/4/4	0/1/1/1
4	PGR	A	2102	-	-	2/2/2/2	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	2102	PGR	O1-C1-C2-C3
4	A	2102	PGR	O1-C1-C2-O2
3	A	2101[D]	R9S	C6-C7-C8-O
3	A	2101[E]	R9S	C6-C7-C8-O
3	A	2101[F]	R9S	C6-C7-C8-O
3	A	2101[D]	R9S	C6-C7-C8-N
3	A	2101[E]	R9S	C6-C7-C8-N
3	A	2101[F]	R9S	C6-C7-C8-N

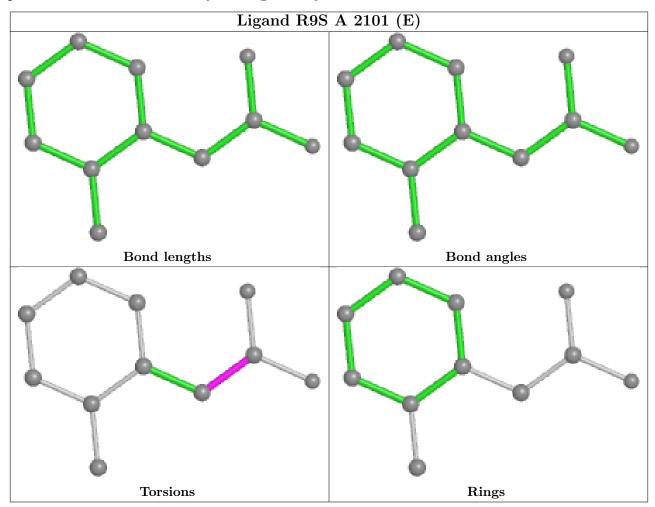
There are no ring outliers.

No monomer is involved in short contacts.

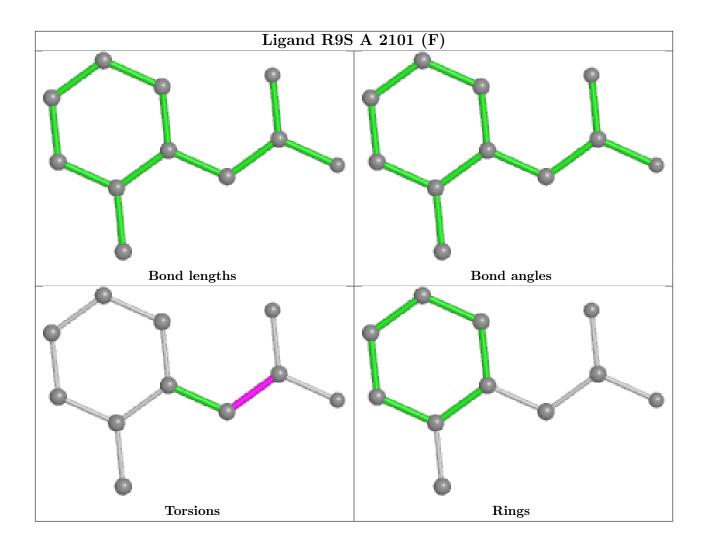
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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



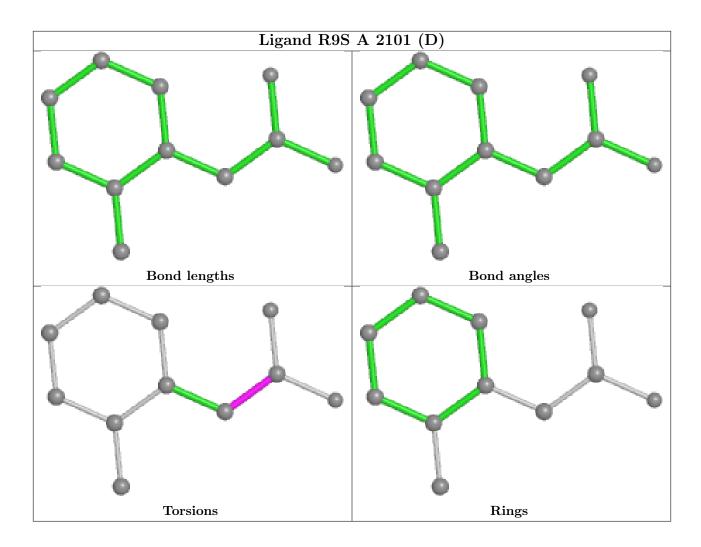
average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents 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, 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 $>$	$\#\mathrm{RSRZ}{>}2$		$OWAB(A^2)$	Q < 0.9
1	A	237/258 (91%)	-0.04	15 (6%) 20	20	24, 35, 67, 90	2 (0%)
2	В	300/308 (97%)	-0.04	11 (3%) 41	44	24, 37, 72, 107	0
All	All	537/566 (94%)	-0.04	26 (4%) 30	32	24, 36, 70, 107	2 (0%)

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	В	52	SER	9.8
2	В	170	SER	5.5
2	В	53	SER	5.2
1	A	2065	ARG	4.9
1	A	2068	ASN	4.7
1	A	2069	VAL	4.3
1	A	2064	GLY	4.0
2	В	172	PRO	3.9
1	A	2063	TYR	3.7
1	A	2028	SER	3.7
1	A	1833	GLY	3.7
2	В	1	MET	3.6
1	A	2060	LEU	3.3
2	В	173	ALA	3.3
1	A	2027	LEU	3.0
1	A	1836	ASN	2.8
1	A	1838	SER	2.8
1	A	1989[A]	PHE	2.6
2	В	54[A]	MET	2.6
2	В	171	ASP	2.5
1	A	2061	THR	2.5
2	В	279	TYR	2.4
1	A	1835	MET	2.3
2	В	278	GLN	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	1837	SER	2.1
2	В	109	ASP	2.1

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.

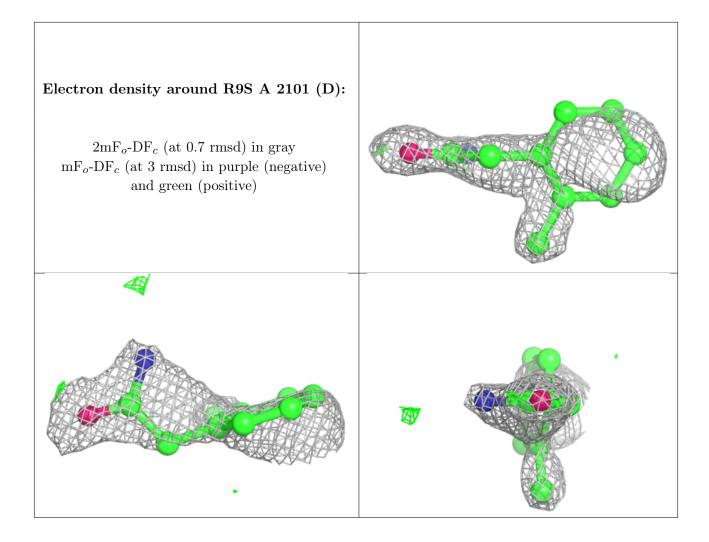
6.4 Ligands (i)

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	$\operatorname{B-factors}(\mathring{\mathbf{A}}^2)$	Q<0.9
3	R9S	A	2101[D]	11/11	0.77	0.28	26,27,29,29	11
3	R9S	A	2101[E]	11/11	0.77	0.28	26,27,29,29	11
3	R9S	A	2101[F]	11/11	0.77	0.28	26,27,29,29	11
4	PGR	A	2102	5/5	0.90	0.13	47,50,50,51	0
5	SO4	A	2105	5/5	0.91	0.14	64,70,81,89	0
5	SO4	A	2104	5/5	0.98	0.11	57,60,67,74	0
5	SO4	A	2103	5/5	0.99	0.08	37,46,51,53	0

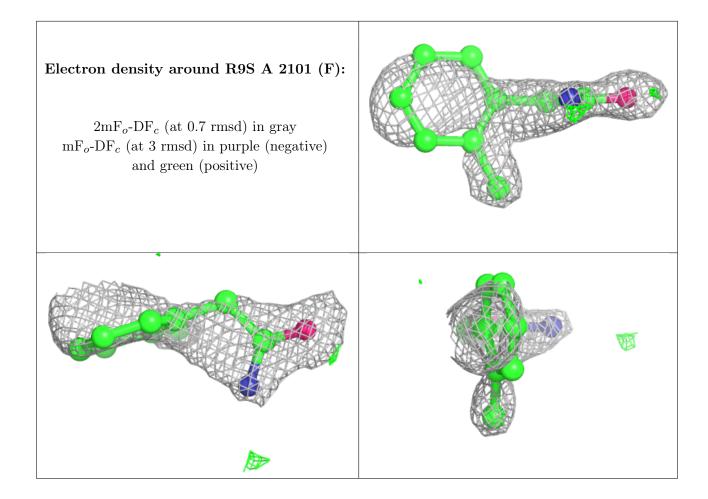
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.











6.5 Other polymers (i)

There are no such residues in this entry.

