



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 06:42 AM UTC

PDB ID : 4ZTJ / pdb_00004ztj
Title : Crystal Structure of the Prototype Foamy Virus Intasome with a 2-Pyridinone Amino Inhibitor
Authors : Klein, D.J.; Patel, S.
Deposited on : 2015-05-14
Resolution : 2.67 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 ⓘ 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

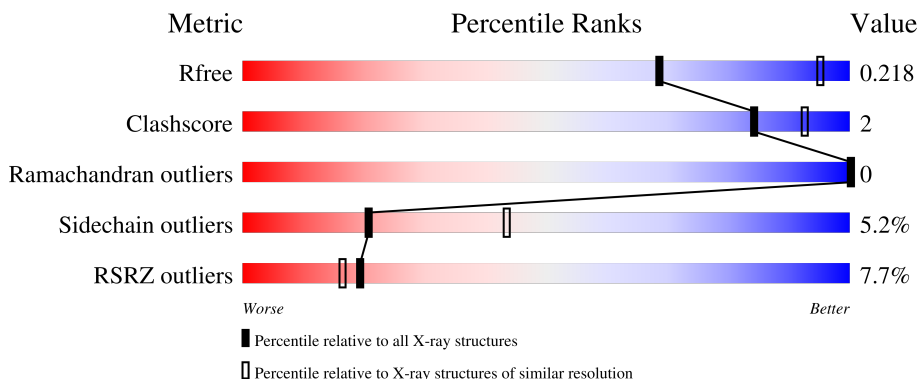
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.67 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	5070 (2.70-2.66)
Clashscore	190562	5409 (2.70-2.66)
Ramachandran outliers	187476	5324 (2.70-2.66)
Sidechain outliers	187428	5324 (2.70-2.66)
RSRZ outliers	180081	5070 (2.70-2.66)

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 $\leq 5\%$. 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	395	5% 83% 9% 7%
1	B	395	6% 41% 6% 53%
2	C	19	5% 84% 16%
3	D	17	6% 88% 12%

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 5324 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 PFV INTEGRASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	368	Total	C	N	O	S	0	0	0
			2908	1864	510	530	4			
1	B	184	Total	C	N	O	S	0	0	0
			1424	925	231	267	1			

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP P14350
A	-1	PRO	-	expression tag	UNP P14350
A	0	GLY	-	expression tag	UNP P14350
A	217	SER	GLY	conflict	UNP P14350
A	218	GLY	SER	conflict	UNP P14350
B	-2	GLY	-	expression tag	UNP P14350
B	-1	PRO	-	expression tag	UNP P14350
B	0	GLY	-	expression tag	UNP P14350
B	217	SER	GLY	conflict	UNP P14350
B	218	GLY	SER	conflict	UNP P14350

- Molecule 2 is a DNA chain called DNA (5'-D(*AP*TP*TP*GP*TP*CP*AP*TP*GP*GP*AP*AP*TP*TP*TP*CP*GP*CP*A)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	19	Total	C	N	O	P	0	0	0
			387	187	68	114	18			

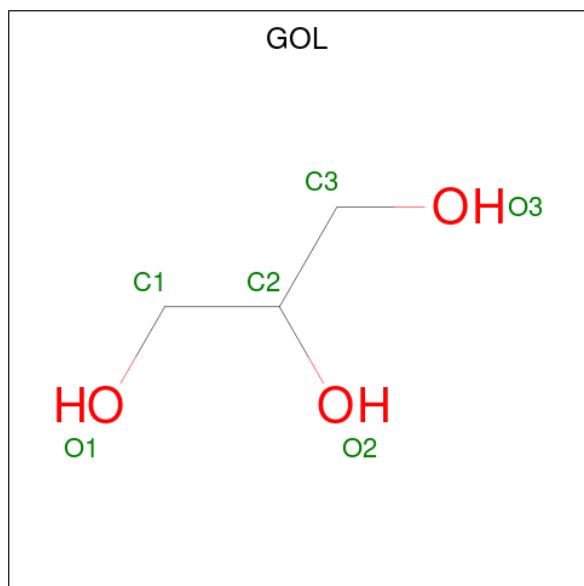
- Molecule 3 is a DNA chain called DNA (5'-D(*TP*GP*CP*GP*AP*AP*AP*TP*TP*CP*CP*AP*TP*GP*AP*CP*A)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	17	Total	C	N	O	P	0	0	0
			345	166	65	98	16			

- Molecule 4 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Zn	0	0
			1	1		

- Molecule 5 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			6	3	3		
5	A	1	Total	C	O	0	0
			6	3	3		
5	B	1	Total	C	O	0	0
			6	3	3		
5	C	1	Total	C	O	0	0
			6	3	3		

- Molecule 6 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

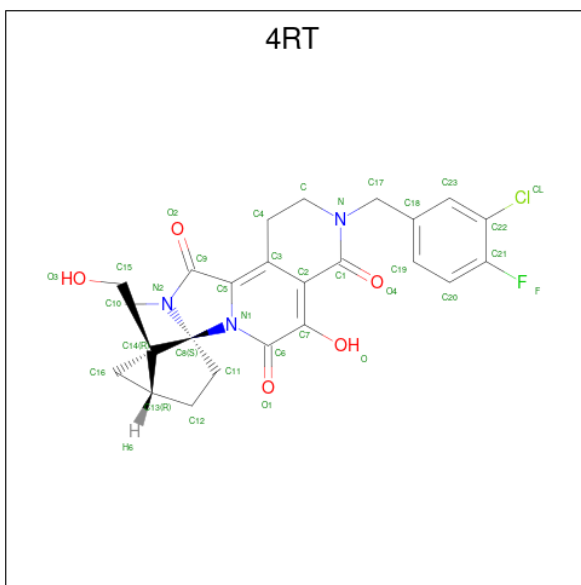
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	2	Total	Mg	0	0
			2	2		
6	B	1	Total	Mg	0	0
			1	1		

- Molecule 7 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



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

- Molecule 8 is (1R,2S,5R)-8'-(3-chloro-4-fluorobenzyl)-6'-hydroxy-1-(hydroxymethyl)-2'-methyl-9',10'-dihydro-2'H-spiro[bicyclo[3.1.0]hexane-2,3'-imidazo[5,1-a][2,6]naphthyridine]-1',5',7'-(8'H)-trione (CCD ID: 4RT) (formula: C₂₄H₂₃ClF₂N₃O₅).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
8	A	1	Total	C	Cl	F	N	O	0	0
			34	24	1	1	3	5		

- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	114	Total	O	0	0
			114	114		
9	B	32	Total	O	0	0
			32	32		
9	C	20	Total	O	0	0
			20	20		
9	D	17	Total	O	0	0
			17	17		

- Molecule 3: DNA (5'-D(*TP*GP*CP*GP*AP*AP*AP*TP*TP*CP*CP*AP*TP*GP*AP*CP*A)-3')

Chain D: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	158.96Å 158.96Å 124.47Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.83 – 2.67 46.83 – 2.67	Depositor EDS
% Data completeness (in resolution range)	100.0 (46.83-2.67) 99.9 (46.83-2.67)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.97 (at 2.69Å)	Xtriage
Refinement program	BUSTER-TNT BUSTER 2.11.5	Depositor
R, R_{free}	0.196 , 0.221 0.193 , 0.218	Depositor DCC
R_{free} test set	2306 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	68.9	Xtriage
Anisotropy	0.281	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 47.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5324	wwPDB-VP
Average B, all atoms (Å ²)	71.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.65% 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: MG, SO4, GOL, 4RT, ZN

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	0.80	0/2987	1.27	7/4081 (0.2%)
1	B	0.88	0/1465	1.30	2/2008 (0.1%)
2	C	0.57	0/433	0.75	0/667
3	D	0.59	0/387	0.72	0/595
All	All	0.79	0/5272	1.20	9/7351 (0.1%)

There are no bond length outliers.

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	196	ALA	CA-C-N	6.49	128.98	120.28
1	A	196	ALA	C-N-CA	6.49	128.98	120.28
1	A	323	VAL	N-CA-CB	-6.18	100.92	112.36
1	B	282	ASP	CA-C-N	6.11	128.79	120.54
1	B	282	ASP	C-N-CA	6.11	128.79	120.54
1	A	80	TYR	N-CA-C	5.55	118.31	109.81
1	A	175	SER	N-CA-C	-5.36	105.60	111.82
1	A	53	ASP	CA-C-N	5.34	127.75	120.54
1	A	53	ASP	C-N-CA	5.34	127.75	120.54

There are no chirality outliers.

There are no planarity outliers.

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	A	2908	0	2919	14	0
1	B	1424	0	1385	7	0
2	C	387	0	218	3	0
3	D	345	0	193	1	0
4	A	1	0	0	0	0
5	A	12	0	16	1	0
5	B	6	0	8	0	0
5	C	6	0	8	0	0
6	A	2	0	0	0	0
6	B	1	0	0	0	0
7	A	10	0	0	0	0
7	B	5	0	0	0	0
8	A	34	0	22	1	0
9	A	114	0	0	0	0
9	B	32	0	0	0	0
9	C	20	0	0	0	0
9	D	17	0	0	0	0
All	All	5324	0	4769	23	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 2.

All (23) 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:C:1:DA:H4'	2:C:2:DT:H5'	1.48	0.94
3:D:1:DT:H2''	3:D:2:DG:OP2	1.93	0.67
1:B:134:PRO:HG2	1:B:239:PRO:HB2	1.83	0.60
1:A:73:LEU:HD13	1:A:86:ARG:HG3	1.86	0.57
1:A:323:VAL:HG13	1:A:369:LEU:HD22	1.88	0.54
1:A:69:ARG:HD2	1:A:70:GLU:OE2	2.08	0.53
1:A:214:PRO:HG3	8:A:408:4RT:H22	1.91	0.52
1:A:161:PRO:O	1:A:189:ALA:HB2	2.12	0.48
1:B:283:THR:C	1:B:285:ASP:H	2.22	0.47
1:A:97:GLN:HE21	1:A:339:LYS:HG2	1.80	0.47
1:A:219:LYS:HE3	2:C:6:DC:OP1	2.16	0.46
1:B:138:GLY:O	1:B:159:LYS:HG2	2.17	0.45
1:A:292:LEU:HD22	1:B:271:GLY:HA3	1.99	0.44
1:B:127:ILE:HA	1:B:144:VAL:O	2.16	0.44
1:B:127:ILE:HG22	1:B:145:VAL:HG22	2.00	0.44
2:C:1:DA:H1'	2:C:2:DT:H73	1.99	0.43
1:A:16:LEU:HD22	1:A:32:LEU:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:122:PHE:O	1:A:179:PRO:HA	2.19	0.42
1:A:337:TRP:CG	1:A:370:LYS:HE2	2.55	0.41
1:A:136:SER:HA	5:A:403:GOL:H31	2.01	0.41
1:A:67:THR:HB	1:A:71:ALA:HB3	2.02	0.41
1:A:113:LEU:HG	1:A:350:ARG:HG3	2.02	0.41
1:B:135:PRO:HG3	1:B:140:LEU:HD21	2.03	0.41

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	366/395 (93%)	354 (97%)	12 (3%)	0	100	100
1	B	182/395 (46%)	172 (94%)	10 (6%)	0	100	100
All	All	548/790 (69%)	526 (96%)	22 (4%)	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	Percentiles	
1	A	324/354 (92%)	308 (95%)	16 (5%)	22	46
1	B	155/354 (44%)	146 (94%)	9 (6%)	18	39

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	479/708 (68%)	454 (95%)	25 (5%)	21	43

All (25) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	ASP
1	A	19	HIS
1	A	26	LYS
1	A	32	LEU
1	A	73	LEU
1	A	137	GLN
1	A	197	GLU
1	A	217	SER
1	A	219	LYS
1	A	293	SER
1	A	312	SER
1	A	322	LEU
1	A	323	VAL
1	A	351	THR
1	A	352	VAL
1	A	356	ASP
1	B	116	ASP
1	B	137	GLN
1	B	164	SER
1	B	225	SER
1	B	262	LYS
1	B	274	SER
1	B	284	LEU
1	B	288	ARG
1	B	289	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	14	GLN
1	A	51	GLN
1	A	97	GLN
1	A	137	GLN
1	A	361	ASN
1	B	205	HIS
1	B	250	GLN

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Mol	Chain	Res	Type
1	B	266	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 12 ligands modelled in this entry, 4 are monoatomic - leaving 8 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
5	GOL	A	402	-	5,5,5	0.11	0	5,5,5	0.19	0
8	4RT	A	408	6	38,39,39	0.59	1 (2%)	41,64,64	0.96	3 (7%)
5	GOL	A	403	-	5,5,5	0.21	0	5,5,5	0.32	0
5	GOL	C	101	-	5,5,5	0.10	0	5,5,5	0.36	0
7	SO4	A	407	-	4,4,4	0.21	0	6,6,6	0.14	0
5	GOL	B	402	-	5,5,5	0.08	0	5,5,5	0.24	0
7	SO4	A	406	-	4,4,4	0.27	0	6,6,6	0.22	0
7	SO4	B	401	-	4,4,4	0.15	0	6,6,6	0.30	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
5	GOL	A	402	-	-	0/4/4/4	-
8	4RT	A	408	6	-	2/7/63/63	0/6/6/6
5	GOL	A	403	-	-	0/4/4/4	-
5	GOL	C	101	-	-	0/4/4/4	-
5	GOL	B	402	-	-	0/4/4/4	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	A	408	4RT	C8-N2	2.20	1.49	1.46

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	A	408	4RT	O3-C15-C14	-2.48	106.46	112.19
8	A	408	4RT	C11-C8-C14	-2.42	103.17	105.84
8	A	408	4RT	C3-C5-N1	2.16	125.37	122.42

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	A	408	4RT	C13-C14-C15-O3
8	A	408	4RT	C16-C14-C15-O3

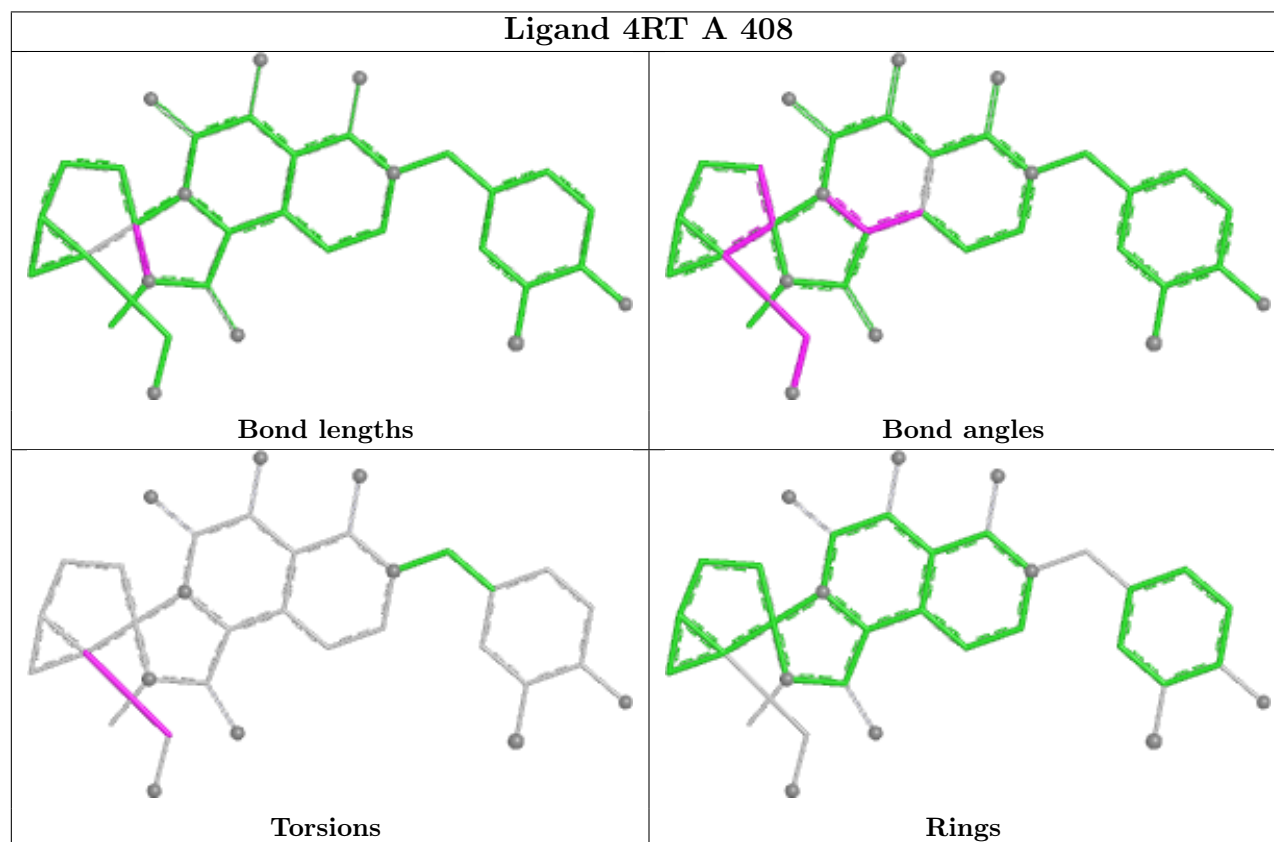
There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
8	A	408	4RT	1	0
5	A	403	GOL	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	368/395 (93%)	0.16	19 (5%) 33 28	50, 64, 104, 147	0
1	B	184/395 (46%)	0.63	24 (13%) 7 6	54, 72, 137, 153	0
2	C	19/19 (100%)	-0.18	1 (5%) 32 27	53, 66, 91, 110	0
3	D	17/17 (100%)	-0.12	1 (5%) 28 24	56, 61, 86, 110	0
All	All	588/826 (71%)	0.29	45 (7%) 19 16	50, 66, 120, 153	0

All (45) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	298	ILE	6.5
1	A	8	LEU	6.4
1	B	295	LEU	5.7
1	B	299	ARG	5.4
1	B	281	GLN	4.9
1	A	20	TYR	4.8
1	A	19	HIS	4.5
2	C	1	DA	4.3
1	B	213	HIS	4.2
1	B	296	GLN	4.1
1	A	358	LEU	4.1
1	B	279	ALA	4.0
1	B	283	THR	3.5
1	A	43	GLU	3.4
1	B	261	LEU	3.4
1	A	29	THR	3.3
1	B	262	LYS	3.3
1	B	288	ARG	3.2
1	B	286	LEU	3.2
1	A	10	ALA	3.0
1	A	16	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
3	D	1	DT	2.9
1	A	11	GLU	2.8
1	B	257	TYR	2.7
1	B	117	ARG	2.6
1	A	375	GLN	2.6
1	B	211	PRO	2.5
1	B	214	PRO	2.4
1	B	235	LEU	2.3
1	B	294	LEU	2.3
1	A	357	HIS	2.3
1	A	356	ASP	2.3
1	A	28	TYR	2.2
1	A	30	TYR	2.2
1	A	296	GLN	2.2
1	A	12	LEU	2.2
1	B	260	VAL	2.2
1	B	280	ASN	2.2
1	A	14	GLN	2.2
1	A	27	GLN	2.1
1	A	15	LEU	2.1
1	B	284	LEU	2.1
1	B	278	PHE	2.1
1	B	292	LEU	2.1
1	B	263	TYR	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](#)

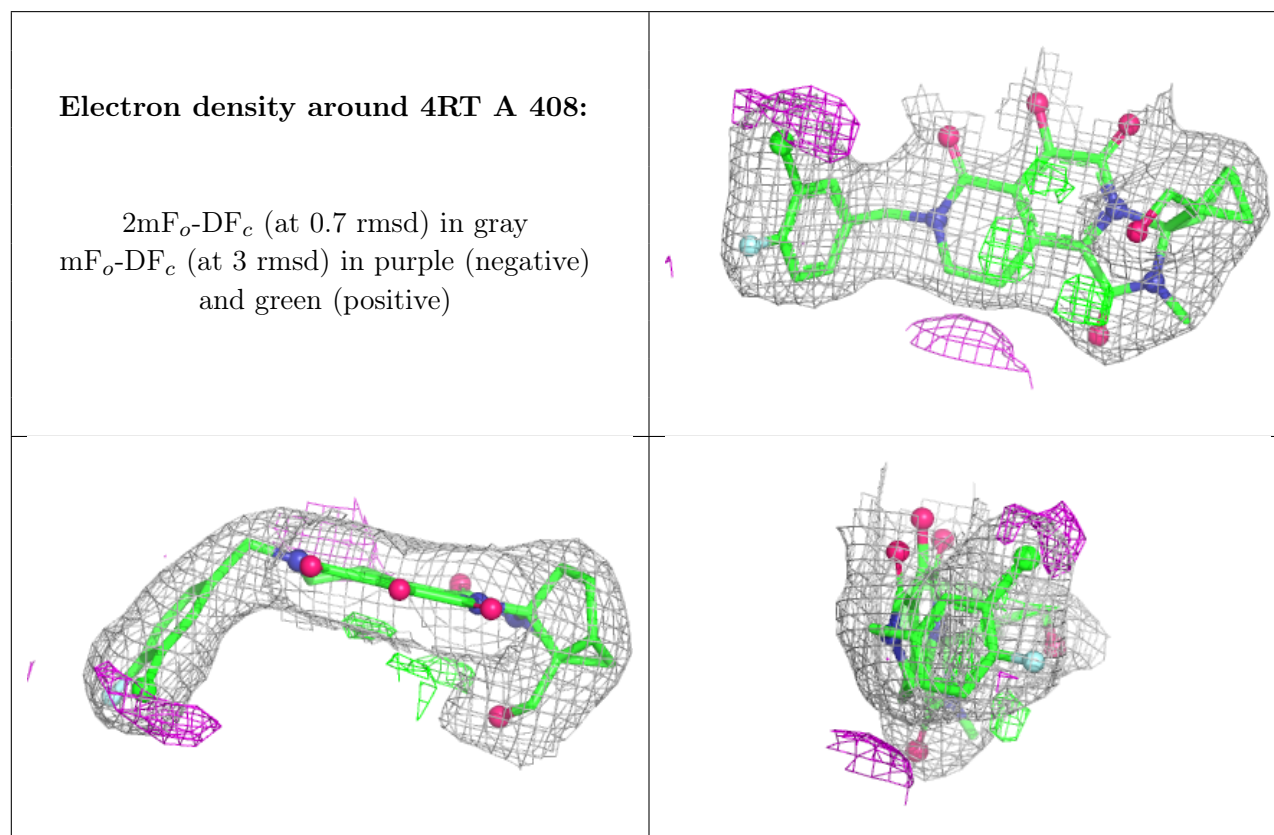
There are no oligosaccharides in this entry.

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
6	MG	B	403	1/1	0.50	0.30	113,113,113,113	0
5	GOL	A	403	6/6	0.81	0.23	78,85,93,95	0
5	GOL	A	402	6/6	0.81	0.26	89,93,97,98	0
7	SO4	A	406	5/5	0.84	0.18	178,179,179,180	0
7	SO4	B	401	5/5	0.86	0.12	107,108,110,110	0
7	SO4	A	407	5/5	0.91	0.11	95,98,99,100	0
5	GOL	B	402	6/6	0.93	0.14	85,87,90,95	0
5	GOL	C	101	6/6	0.94	0.17	71,74,80,83	0
8	4RT	A	408	34/34	0.96	0.09	41,58,64,64	0
6	MG	A	405	1/1	1.00	0.03	49,49,49,49	0
4	ZN	A	401	1/1	1.00	0.06	63,63,63,63	0
6	MG	A	404	1/1	1.00	0.04	57,57,57,57	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 ⓘ

There are no such residues in this entry.