

Full wwPDB X-ray Structure Validation Report (i)

May 16, 2020 - 05:58 am BST

PDB ID	:	5O4A
Title	:	Human FGF in complex with a covalent inhibitor
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Deposited on	:	2017-05-26
Resolution	:	2.01 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 following versions of software and data (see references (1)) were used in the production of this report:

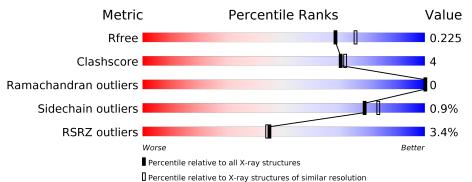
MolProbity		4.02b-467 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)		1.13
EDS	:	2.11
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
$\operatorname{CCP4}$:	$7.0.044 (\mathrm{Gargrove})$
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

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 2.01 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
R_{free}	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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 on 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	309	86%	7%	• 6%
1	В	309	4% 85%	8%	6%



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 4759 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.

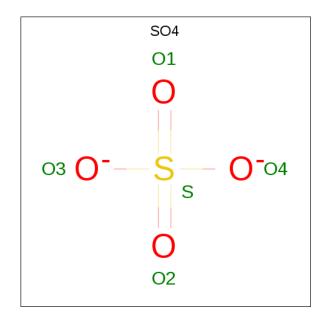
Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	Δ	290	Total	С	Ν	Ο	S	0	9	0
		230	2218	1411	380	408	19	0	2	U
1	В	291	Total	С	Ν	Ο	S	0	1	0
	I D	291	2233	1421	381	415	16	0		

• Molecule 1 is a protein called Fibroblast growth factor receptor 1.

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	457	GLY	-	expression tag	UNP P11362
А	488	ALA	CYS	$\operatorname{conflict}$	UNP P11362
A	584	SER	CYS	$\operatorname{conflict}$	UNP P11362
В	457	GLY	-	expression tag	UNP P11362
В	488	ALA	CYS	$\operatorname{conflict}$	UNP P11362
В	584	SER	CYS	conflict	UNP P11362

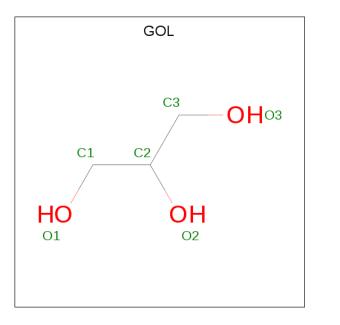
• Molecule 2 is SULFATE ION (three-letter code: SO4) (formula: O₄S).





Mol	Chain	Residues	Residues Atoms		AltConf
2	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
2	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
2	В	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0

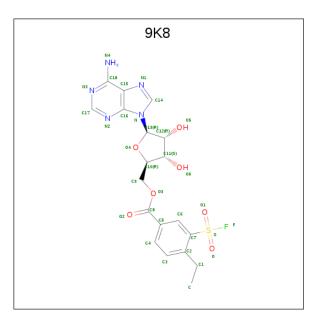
• Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues Atoms		ZeroOcc	AltConf
3	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0

• Molecule 4 is $[(2 \{R\},3 \{S\},4 \{R\},5 \{R\})-5-(6-aminopurin-9-yl)-3,4-bis(oxidanyl)o xolan-2-yl]methyl 4-ethyl-3-fluorosulfonyl-benzoate (three-letter code: 9K8) (formula: C₁₉H₂₀FN₅O₇S).$





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total C N O S 32 19 5 7 1	0	0
4	В	1	Total C F N O S 65 38 1 10 14 2	0	1

• Molecule 5 is water.

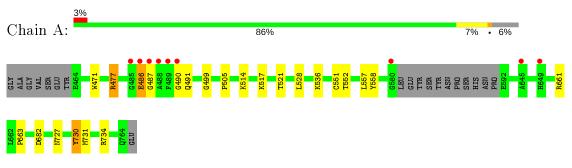
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	108	Total O 108 108	0	0
5	В	82	TotalO8282	0	1



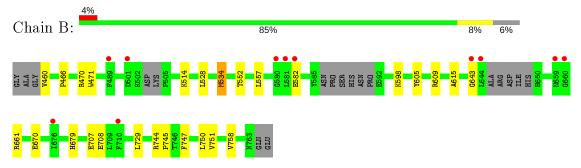
3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA 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: Fibroblast growth factor receptor 1



• Molecule 1: Fibroblast growth factor receptor 1





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	211.14Å 57.27Å 66.80Å	Denesiter
a, b, c, α , β , γ	90.00° 107.57° 90.00°	Depositor
Resolution (Å)	63.68 - 2.01	Depositor
Resolution (A)	55.08 - 2.01	EDS
% Data completeness	$98.6\ (63.68\text{-}2.01)$	Depositor
(in resolution range)	$98.6\ (55.08-2.01)$	EDS
R_{merge}	0.03	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.77 ({\rm at}2.01{ m \AA})$	Xtriage
Refinement program	BUSTER 2.11.6	Depositor
R, R_{free}	0.217 , 0.225	Depositor
n, nfree	0.218 , 0.225	DCC
R_{free} test set	2449 reflections (4.87%)	wwPDB-VP
Wilson B-factor $(Å^2)$	47.1	Xtriage
Anisotropy	0.602	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.31 , 61.1	EDS
L-test for twinning ²	$< L > = 0.49, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.020 for -h-2*l,-k,l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4759	wwPDB-VP
Average B, all atoms $(Å^2)$	62.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.30% 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: GOL, 9K8, SO4

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	Bo	nd lengths	Bond angles		
	Ullani	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.54	0/2263	0.66	2/3072~(0.1%)	
1	В	0.61	2/2278~(0.1%)	0.73	2/3089~(0.1%)	
All	All	0.58	2/4541~(0.0%)	0.70	$4/6161 \ (0.1\%)$	

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	А	0	2

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
1	В	460	VAL	C-N	8.41	1.53	1.34
1	В	466	PRO	N-CD	5.56	1.55	1.47

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	В	460	VAL	O-C-N	8.37	136.10	122.70
1	А	682	ASP	CB-CG-OD1	8.18	125.66	118.30
1	В	460	VAL	CA-C-N	-6.83	102.17	117.20
1	А	730	TYR	O-C-N	-6.27	112.67	122.70

There are no chirality outliers.

All (2) planarity outliers are listed below:



Mol	Chain	Chain Res Type		Group	
1	А	730	TYR	Mainchain	

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	2218	0	2142	15	0
1	В	2233	0	2147	18	0
2	А	10	0	0	0	0
2	В	5	0	0	1	0
3	А	6	0	8	1	0
4	А	32	0	0	0	0
4	В	65	0	0	3	0
5	A	108	0	0	1	0
5	В	82	0	0	0	0
All	All	4759	0	4297	32	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 (32) 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:B:598:LYS:NZ	1:B:758:VAL:O	2.07	0.86
1:A:661:ARG:HH21	3:A:803:GOL:H2	1.44	0.83
1:B:514[B]:LYS:HE3	4:B:802[B]:9K8:F	1.93	0.58
1:A:663:PRO:HD2	5:A:902:HOH:O	2.05	0.56
1:A:727:ASN:O	1:A:731[B]:MET:HG2	2.06	0.54
1:A:499:GLY:HA2	1:A:505:PRO:HA	1.90	0.53
1:B:747:PHE:O	1:B:751:VAL:HG23	2.09	0.52
1:A:490:GLY:HA2	1:A:517:LYS:HG3	1.92	0.51
1:B:615:ALA:HA	1:B:679:HIS:CE1	2.45	0.51
1:B:534:MET:SD	1:B:643:GLY:HA2	2.50	0.51
1:B:514[A]:LYS:HG2	1:B:528:LEU:HD11	1.92	0.50
1:B:514[B]:LYS:HZ1	4:B:802[B]:9K8:C1	2.25	0.50
1:A:552:THR:HG22	1:A:557:LEU:CD1	2.43	0.49
1:A:477:ARG:HA	1:A:477:ARG:NE	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:514:LYS:HG2	1:A:528:LEU:HD11	1.94	0.48
1:B:745:PRO:HG2	1:B:750:LEU:HD21	1.96	0.47
1:A:551:CYS:HB2	1:A:558:TYR:HB2	1.97	0.47
1:A:734:ARG:NH1	1:B:582:GLU:CB	2.78	0.46
1:B:470:ARG:HH12	1:B:471:TRP:HE1	1.63	0.45
1:B:552:THR:HG22	1:B:557:LEU:CD1	2.45	0.45
1:A:499:GLY:CA	1:A:505:PRO:HA	2.46	0.45
1:B:514[B]:LYS:CE	4:B:802[B]:9K8:F	2.55	0.45
1:B:605:TYR:CE2	1:B:609:ARG:HD2	2.52	0.45
1:B:707:GLU:HG2	1:B:708:GLU:N	2.31	0.45
1:A:552:THR:HG22	1:A:557:LEU:HD13	1.99	0.44
1:A:487:GLY:O	1:A:517:LYS:NZ	2.37	0.44
1:B:729:LEU:HA	1:B:729:LEU:HD23	1.96	0.43
1:B:661:ARG:HD2	2:B:801:SO4:O3	2.19	0.43
1:A:486:GLU:HG3	1:A:491:GLN:CB	2.48	0.43
1:B:670:GLU:OE2	1:B:744:ARG:NH1	2.39	0.41
1:B:514[B]:LYS:HG2	1:B:528:LEU:HD11	2.02	0.41
1:A:471:TRP:CD1	1:A:536:LYS:HE2	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 Allowed		Outliers	Perce	\mathbf{ntiles}	
1	А	288/309~(93%)	284~(99%)	4 (1%)	0	100	100
1	В	284/309~(92%)	279~(98%)	5(2%)	0	100	100
All	All	572/618~(93%)	563~(98%)	9~(2%)	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	А	226/269~(84%)	223~(99%)	3~(1%)	69 74
1	В	228/269~(85%)	227~(100%)	1 (0%)	91 93
All	All	454/538~(84%)	450~(99%)	4 (1%)	78 83

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	477	ARG
1	А	486	GLU
1	А	521	THR
1	В	534	MET

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

Mol	Chain	Res	Type
1	В	679	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 carbohydrates 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		Res Link Bond lengths		ths	Bond angles				
	Type	Cham	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	SO4	В	801	-	$4,\!4,\!4$	0.22	0	$6,\!6,\!6$	0.39	0
2	SO4	А	802	-	4, 4, 4	0.16	0	$6,\!6,\!6$	0.10	0
4	9K8	В	802[B]	-	$32,\!36,\!36$	0.52	0	$39,\!54,\!54$	0.79	2 (5%)
2	SO4	А	801	-	4, 4, 4	0.40	0	$6,\!6,\!6$	0.30	0
3	GOL	А	803	-	5, 5, 5	0.07	0	$5,\!5,\!5$	0.14	0
4	9K8	А	804	1	$29,\!35,\!36$	0.58	0	$33,\!51,\!54$	0.84	1(3%)
4	9K8	В	802[A]	1	$32,\!35,\!36$	1.03	2(6%)	39,51,54	<mark>3.85</mark>	<mark>4 (10%)</mark>

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	\mathbf{Res}	Link	Chirals	Torsions	Rings
3	GOL	А	803	-	-	4/4/4/4	-
4	9K8	А	804	1	-	2/15/35/37	0/4/4/4
4	9K8	В	802[B]	-	-	3/17/37/37	0/4/4/4
4	9K8	В	802[A]	1	-	2/17/35/37	0/4/4/4

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(\operatorname{\AA})$
4	В	802[A]	9K8	F-S	-4.88	1.34	1.53
4	В	802[A]	9K8	C14-N1	-2.18	1.30	1.34

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
4	В	802[A]	9K8	F-S-O1	-19.30	62.56	106.49

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Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
4	В	802[A]	9K8	F-S-O	13.35	136.88	106.49
4	В	802[B]	9K8	C2-C7-S	-3.20	118.63	122.30
4	В	802[A]	9K8	C2-C7-S	3.18	125.94	122.30
4	В	802[B]	9K8	C15-C18-N4	2.25	123.77	120.35
4	А	804	9K8	C15-C18-N4	2.22	123.72	120.35
4	В	802[A]	9K8	C15-C18-N4	2.01	123.40	120.35

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There are no chirality outliers.

Mol	Chain	Res	Type	Atoms
4	В	802[B]	9K8	C2-C7-S-F
3	А	803	GOL	C1-C2-C3-O3
3	А	803	GOL	O2-C2-C3-O3
4	А	804	9K8	C2-C7-S-O
4	В	802[A]	9K8	C2-C7-S-F
4	В	802[A]	9K8	C6-C7-S-F
3	А	803	GOL	O1-C1-C2-C3
4	В	802[B]	9K8	C6-C7-S-F
4	В	802[B]	9K8	C6-C7-S-O
3	А	803	GOL	O1-C1-C2-O2
4	А	804	9K8	C6-C7-S-O1

All (11) torsion outliers are listed below:

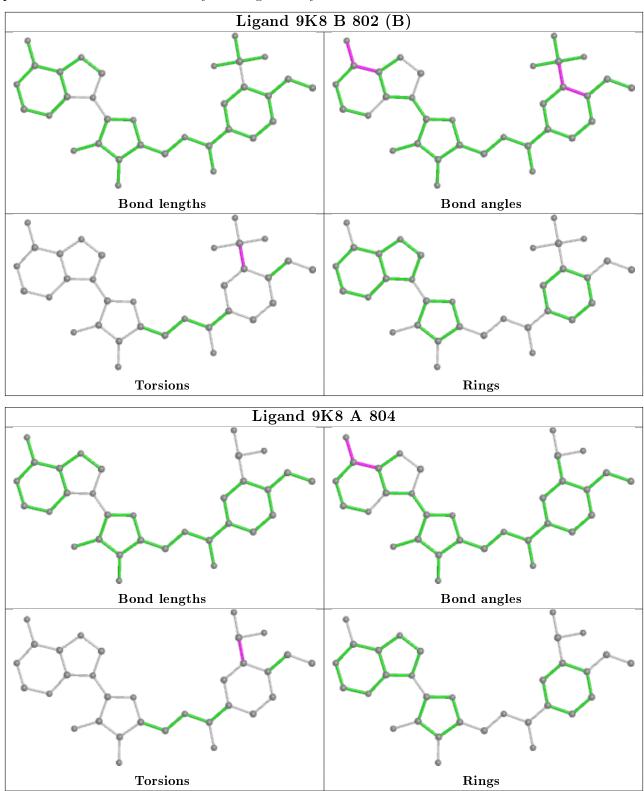
There are no ring outliers.

3 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	801	SO4	1	0
4	В	802[B]	9K8	3	0
3	А	803	GOL	1	0

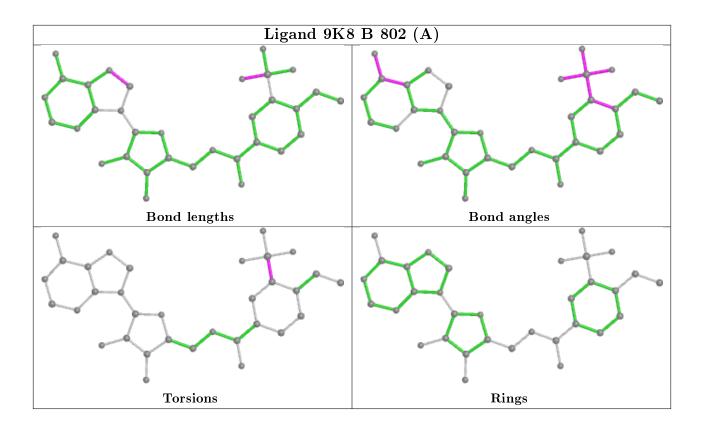
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less 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, 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	А	290/309~(93%)	0.02	9 (3%) 49 48	38, 56, 95, 113	0
1	В	291/309~(94%)	-0.04	11 (3%) 40 39	42, 61, 97, 134	1 (0%)
All	All	581/618~(94%)	-0.01	20 (3%) 45 44	38, 59, 97, 134	1 (0%)

All (20) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	581	LEU	5.7
1	А	645	ALA	5.4
1	А	488	ALA	5.1
1	А	580	GLY	5.0
1	В	643	GLY	4.5
1	А	487	GLY	4.1
1	А	489	PHE	4.0
1	В	580	GLY	3.4
1	В	489	PHE	3.3
1	А	490	GLY	3.0
1	В	659	ASN	2.6
1	А	649	HIS	2.5
1	В	660	GLY	2.5
1	В	644	LEU	2.4
1	А	486	GLU	2.3
1	В	582	GLU	2.3
1	В	710	PHE	2.2
1	В	501	ASP	2.1
1	А	485	GLY	2.1
1	В	676	ILE	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 carbohydrates in this entry.

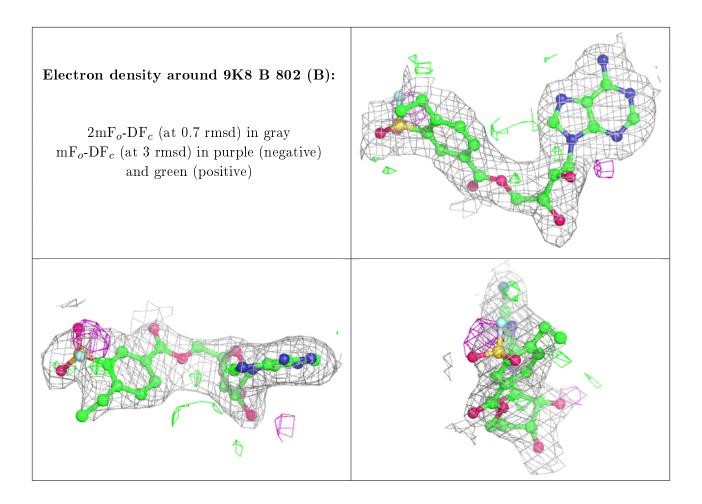
6.4 Ligands (i)

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.

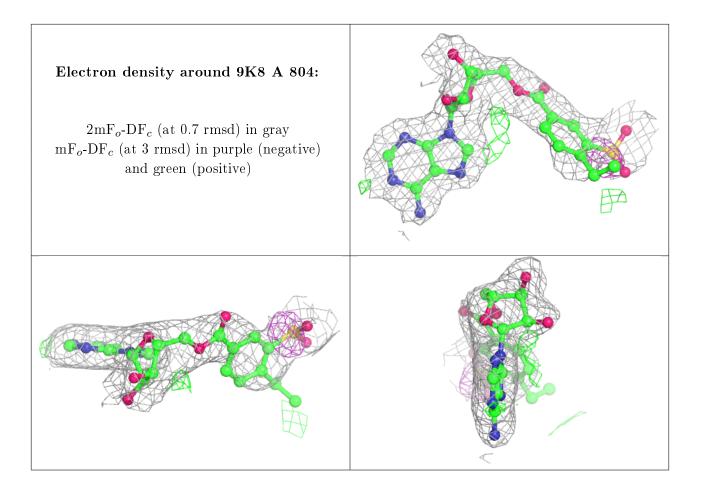
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	Q<0.9
3	GOL	А	803	6/6	0.73	0.14	$80,\!81,\!83,\!84$	0
2	SO4	В	801	5/5	0.83	0.33	$93,\!97,\!98,\!99$	0
4	9K8	В	802[B]	33/33	0.86	0.17	81,95,124,124	33
4	9K8	А	804	32/33	0.86	0.19	54,86,124,125	0
4	9K8	В	802[A]	32/33	0.86	0.17	$33,\!69,\!108,\!109$	32
2	SO4	А	801	5/5	0.89	0.36	$105,\!106,\!108,\!108$	0
2	SO4	А	802	5/5	0.93	0.14	$105,\!105,\!106,\!106$	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.

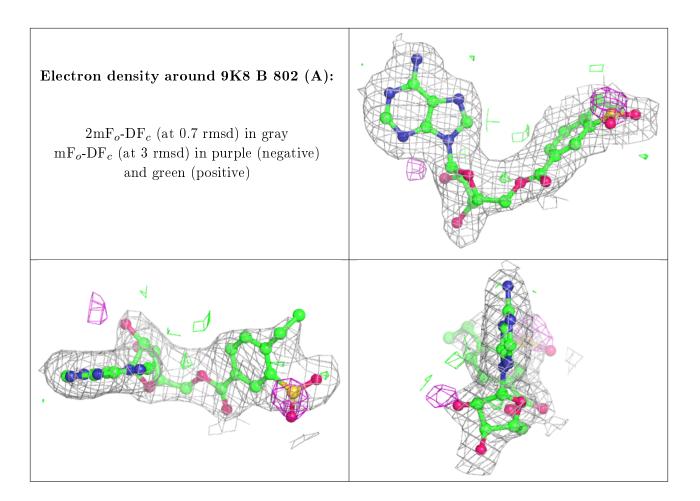












6.5 Other polymers (i)

There are no such residues in this entry.

