

Full wwPDB X-ray Structure Validation Report (i)

Jan 20, 2024 – 06:32 pm GMT

PDB ID : 7OZD

Title: FGFR1 kinase domain (residues 458-765) with mutations C488A, C584S in

complex with 34.

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Deposited on : 2021-06-27

Resolution : 1.82 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 (1)) were used in the production of this report:

MolProbity: 4.02b-467

Mogul : 1.8.4, CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.36

buster-report : 1.1.7 (2018)

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

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

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

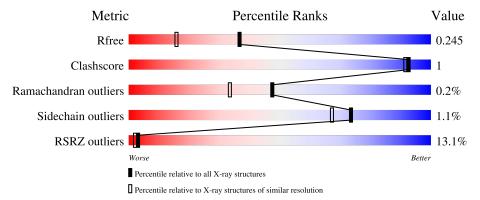
Validation Pipeline (wwPDB-VP) : 2.36

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 1.82 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}(\mathring{\rm A})) \end{array}$
R_{free}	130704	7484 (1.84-1.80)
Clashscore	141614	8401 (1.84-1.80)
Ramachandran outliers	138981	8290 (1.84-1.80)
Sidechain outliers	138945	8290 (1.84-1.80)
RSRZ outliers	127900	7371 (1.84-1.80)

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	AAA	309	88%		9%
1	BBB	309	12%	•	8%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:



Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	42I	AAA	801	_	_	_	X



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 9268 atoms, of which 4520 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 Fibroblast growth factor receptor 1.

Mol	Chain	Residues		Atoms			ZeroOcc	AltConf	Trace		
1	AAA	282	Total 4408	C 1399	H 2211	N 376	O 404	S 18	105	2	0
1	BBB	285	Total 4491	C 1427	H 2251	N 380	O 415	S 18	98	1	0

There are 6 discrepancies between the modelled and reference sequences:

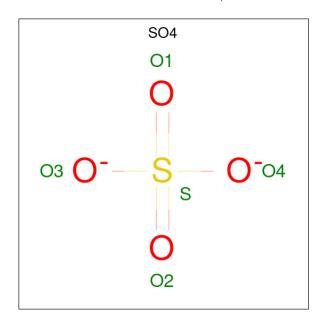
Chain	Residue	Modelled	Actual	Comment	Reference
AAA	457	GLY	-	expression tag	UNP P11362
AAA	488	ALA	CYS	engineered mutation	UNP P11362
AAA	584	SER	CYS	engineered mutation	UNP P11362
BBB	457	GLY	-	expression tag	UNP P11362
BBB	488	ALA	CYS	engineered mutation	UNP P11362
BBB	584	SER	CYS	engineered mutation	UNP P11362

• Molecule 2 is N-[6-(4-hydroxyphenyl)-1H-indazol-3-yl]benzamide (three-letter code: 42I) (formula: $C_{20}H_{15}N_3O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
2	AAA	1	Total	С	Н	N	О	0	0	
	AAA	1	39	20	14	3	2	U		
2	BBB	1	Total	С	Н	N	О	0	0	
	ррр	1	39	20	14	3	2	U		

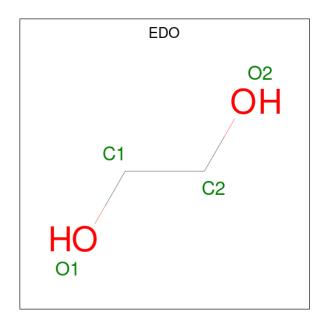
 \bullet Molecule 3 is SULFATE ION (three-letter code: SO4) (formula: $\mathrm{O_4S}).$



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	AAA	1	Total O S 5 4 1	0	0
3	AAA	1	Total O S 5 4 1	0	0
3	AAA	1	Total O S 5 4 1	0	0
3	AAA	1	Total O S 5 4 1	0	0
3	AAA	1	Total O S 5 4 1	0	0
3	BBB	1	Total O S 5 4 1	0	0
3	BBB	1	Total O S 5 4 1	0	0
3	BBB	1	Total O S 5 4 1	0	0

 \bullet Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $\mathrm{C_2H_6O_2}).$





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	
4	AAA	1	Total C H O	1	0	
4	AAA	1	10 2 6 2	1	U	
4	AAA	1	Total C H O	1	0	
4	AAA	1	10 2 6 2	1	U	
4	AAA	1	Total C H O	1	0	
4	AAA	1	10 2 6 2	1	0	
4	BBB	1	Total C H O	1	0	
4	מממ	1	10 2 6 2	1	U	
1	BBB	1	Total C H O	1	0	
4	מממ	1	10 2 6 2	1		

• Molecule 5 is water.

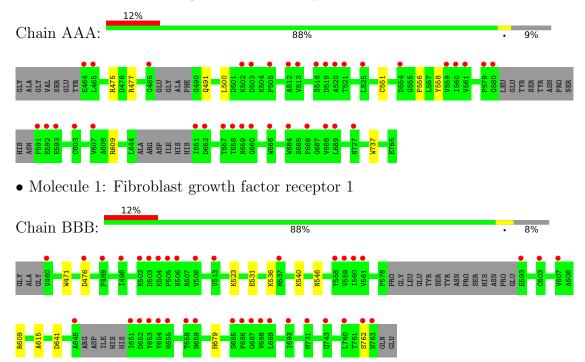
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	AAA	113	Total O 113 113	0	0
5	BBB	88	Total O 88 88	0	0



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: Fibroblast growth factor receptor 1





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	207.30Å 57.51Å 65.97Å	Depositor
a, b, c, α , β , γ	90.00° 107.44° 90.00°	Depositor
Resolution (Å)	22.01 - 1.82	Depositor
Resolution (A)	22.01 - 1.82	EDS
% Data completeness	99.1 (22.01-1.82)	Depositor
(in resolution range)	99.1 (22.01-1.82)	EDS
R_{merge}	0.03	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.64 (at 1.83Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
Ρ. Р.	0.200 , 0.241	Depositor
R, R_{free}	0.208 , 0.245	DCC
R_{free} test set	3148 reflections (4.76%)	wwPDB-VP
Wilson B-factor (Å ²)	40.6	Xtriage
Anisotropy	0.500	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.42, 50.4	EDS
L-test for twinning ²	$< L > = 0.49, < L^2> = 0.33$	Xtriage
Estimated twinning fraction	0.017 for -h-2*l,-k,l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	9268	wwPDB-VP
Average B, all atoms (Å ²)	48.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.27% 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: 42I, EDO, 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	Bond	lengths	Bond angles		
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	AAA	0.66	0/2244	0.76	0/3038	
1	BBB	0.65	0/2285	0.74	0/3092	
All	All	0.66	0/4529	0.75	0/6130	

There are no bond length outliers.

There are no bond angle outliers.

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	AAA	2197	2211	2171	6	0
1	BBB	2240	2251	2225	5	0
2	AAA	25	14	0	1	0
2	BBB	25	14	0	3	0
3	AAA	25	0	0	0	0
3	BBB	15	0	0	0	0
4	AAA	12	18	18	1	0
4	BBB	8	12	12	0	0
5	AAA	113	0	0	0	0
5	BBB	88	0	0	0	0
All	All	4748	4520	4426	13	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 1.

All (13) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
1:BBB:641:ASP:OD1	2:BBB:801:42I:C13	2.40	0.69
1:AAA:475:ARG:NH2	1:AAA:556:PRO:O	2.37	0.55
1:AAA:737:TRP:CD2	4:AAA:808:EDO:H22	2.43	0.54
1:AAA:477:ARG:HA	1:AAA:477:ARG:NE	2.22	0.53
1:BBB:531:GLU:OE2	2:BBB:801:42I:O1	2.30	0.49
2:BBB:801:42I:C4	2:BBB:801:42I:O2	2.60	0.48
2:AAA:801:42I:C4	2:AAA:801:42I:O2	2.63	0.47
1:BBB:615:ALA:HA	1:BBB:679:HIS:CE1	2.50	0.47
1:BBB:471:TRP:CD1	1:BBB:536:LYS:HE2	2.51	0.46
1:BBB:540:LYS:HA	1:BBB:546:ASN:OD1	2.17	0.45
1:AAA:477:ARG:NE	1:AAA:477:ARG:CA	2.83	0.42
1:AAA:551:CYS:HB2	1:AAA:558:TYR:HB2	2.03	0.41
1:AAA:500:LEU:HD12	1:AAA:500:LEU:HA	1.89	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	alysed Favoured Allowed		Outliers	Percentiles	
1	AAA	276/309~(89%)	270 (98%)	5 (2%)	1 (0%)	34	21
1	BBB	280/309 (91%)	277 (99%)	3 (1%)	0	100	100
All	All	556/618 (90%)	547 (98%)	8 (1%)	1 (0%)	47	33

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	AAA	491	GLN



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	AAA	234/269 (87%)	233 (100%)	1 (0%)	91 89		
1	BBB	241/269 (90%)	237 (98%)	4 (2%)	60 50		
All	All	475/538 (88%)	470 (99%)	5 (1%)	73 67		

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AAA	609	ARG
1	BBB	476	ASP
1	BBB	523	LYS
1	BBB	609	ARG
1	BBB	762	SER

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 monosaccharides in this entry.

5.6 Ligand geometry (i)

15 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	Trino	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	SO4	AAA	803	-	4,4,4	0.38	0	6,6,6	0.05	0
3	SO4	AAA	806	-	4,4,4	0.30	0	6,6,6	0.04	0
3	SO4	BBB	803	-	4,4,4	0.38	0	6,6,6	0.04	0
4	EDO	AAA	808	-	3,3,3	0.05	0	2,2,2	0.15	0
4	EDO	AAA	807	-	3,3,3	0.13	0	2,2,2	0.41	0
3	SO4	AAA	805	-	4,4,4	0.38	0	6,6,6	0.06	0
4	EDO	AAA	809	_	3,3,3	0.25	0	2,2,2	0.45	0
4	EDO	BBB	806	-	3,3,3	0.04	0	2,2,2	0.23	0
3	SO4	AAA	802	-	4,4,4	0.27	0	6,6,6	0.19	0
2	42I	BBB	801	-	26,28,28	1.37	1 (3%)	32,39,39	1.22	3 (9%)
4	EDO	BBB	805	-	3,3,3	0.22	0	2,2,2	0.63	0
3	SO4	BBB	804	-	4,4,4	0.38	0	6,6,6	0.08	0
3	SO4	BBB	802	-	4,4,4	0.40	0	6,6,6	0.12	0
2	42I	AAA	801	-	26,28,28	1.34	1 (3%)	32,39,39	1.09	3 (9%)
3	SO4	AAA	804	-	4,4,4	0.37	0	6,6,6	0.06	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
4	EDO	AAA	808	-	-	0/1/1/1	-
4	EDO	AAA	807	-	-	0/1/1/1	-
4	EDO	AAA	809	-	-	0/1/1/1	-
4	EDO	BBB	806	-	-	0/1/1/1	-
2	42I	BBB	801	-	-	0/10/12/12	0/4/4/4
4	EDO	BBB	805	-	-	0/1/1/1	-
2	42I	AAA	801	-	-	0/10/12/12	0/4/4/4

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(ext{\AA})$
2	AAA	801	42I	O1-C8	-5.22	1.24	1.37

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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(ext{\AA})$
2	BBB	801	42I	O1-C8	-5.10	1.25	1.37

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$Ideal(^{o})$
2	BBB	801	42I	C2-C1-C7	-3.28	118.57	121.44
2	AAA	801	42I	C2-C1-C7	-3.25	118.60	121.44
2	BBB	801	42I	C18-C14-N3	2.95	122.42	115.92
2	AAA	801	42I	C18-C14-N3	2.68	121.81	115.92
2	AAA	801	42I	O2-C14-C18	-2.50	116.47	120.94
2	BBB	801	42I	C3-C2-C11	-2.02	117.86	121.36

There are no chirality outliers.

There are no torsion outliers.

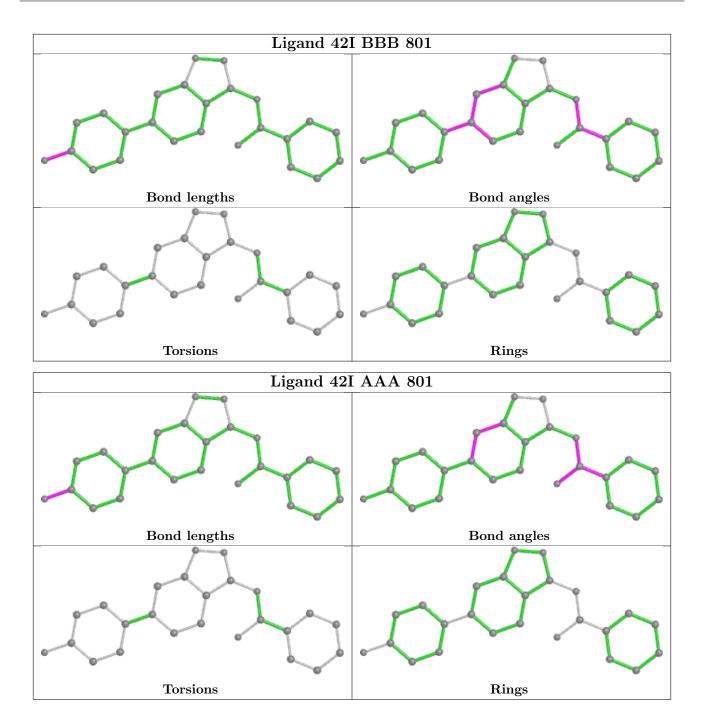
There are no ring outliers.

3 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	AAA	808	EDO	1	0
2	BBB	801	42I	3	0
2	AAA	801	42I	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, 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	$\langle { m RSRZ} \rangle$	"		$\mathbf{OWAB}(\mathbf{\mathring{A}}^2)$	Q<0.9	
1	AAA	282/309 (91%)	0.53	36 (12%)	3	2	29, 44, 74, 96	0
1	BBB	285/309 (92%)	0.57	38 (13%) 3	3	2	33, 45, 72, 92	0
All	All	567/618 (91%)	0.55	74 (13%)	3	2	29, 45, 74, 96	0

All (74) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ	
1	AAA	580	GLY	5.4	
1	AAA	505	PRO	5.4	
1	BBB	503	ASP	5.3	
1	BBB	763	ASN	5.2	
1	AAA	591	PRO	5.0	
1	AAA	658	THR	4.7	
1	AAA	592	GLU	4.6	
1	AAA	651	ILE	4.6	
1	BBB	762	SER	4.5	
1	BBB	743	GLN	4.4	
1	AAA	518	SER	4.1	
1	BBB	559	VAL	3.9	
1	AAA	521	THR	3.9	
1	AAA	513	VAL	3.8	
1	BBB	505	PRO	3.8	
1	AAA	525	LEU	3.6	
1	AAA	503	ASP	3.5	
1	BBB	502	LYS	3.5	
1	BBB	658	THR	3.4	
1	BBB	460	VAL	3.3	
1	AAA	652	ASP	3.3	
1	AAA	603[A]	CYS	3.3	
1	BBB	506	ASN	3.3	
1	BBB	593	GLU	3.2	

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Mol	Chain	$rac{from \ previous \ page}{f ain} \mid f Res \mid Type \mid RS$			
1	AAA	485	GLY	3.2	
1	AAA	520	ALA	3.1	
1	BBB	688	VAL	3.1	
1	BBB	645	ALA	3.1	
1	AAA	579 PRO		3.0	
1	AAA	559	VAL	3.0	
1	AAA	593	GLU	3.0	
1	BBB	689	LEU	3.0	
1	AAA	512	ALA	3.0	
1	BBB	561	VAL	2.9	
1	BBB	607	VAL	2.9	
1	BBB	560	ILE	2.9	
1	BBB	489	PHE	2.9	
1	BBB	652	ASP	2.9	
1	BBB	654	TYR	2.9	
1	BBB	760	LEU	2.9	
1	AAA	465	LEU	2.8	
1	AAA	561	VAL	2.8	
1	BBB	686	PHE	2.7	
1	BBB	687	GLY	2.7	
1	AAA	727	ASN	2.7	
1	BBB	603[A]	CYS	2.7	
1	BBB	558	TYR	2.6	
1	AAA	607	VAL	2.6	
1	AAA	689	LEU	2.5	
1	AAA	464	GLU	2.5	
1	BBB	513	VAL	2.5	
1	BBB	653	TYR	2.5	
1	AAA	560	ILE	2.5	
1	AAA	686	PHE	2.4	
1	AAA	554	ASP	2.4	
1	AAA	659	ASN	2.4	
1	BBB	504	LYS	2.4	
1	AAA	657	THR	2.3	
1	BBB	498	ILE	2.3	
1	AAA	519	ASP	2.3	
1	AAA	660	GLY	2.3	
1	BBB	731	MET	2.3	
1	BBB	655	LYS	2.2	
1	BBB	693	ILE	2.1	
1	BBB	508	VAL	2.1	
1	BBB	651	ILE	2.1	

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Mol	Chain	Res	Type	RSRZ	
1	AAA	684	TRP	2.1	
1	BBB	685	SER	2.1	
1	BBB	537	MET	2.0	
1	BBB	476	ASP	2.0	
1	BBB	659	ASN	2.0	
1	AAA	666	TRP	2.0	
1	AAA	502	LYS	2.0	
1	AAA	688	VAL	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 monosaccharides in this entry.

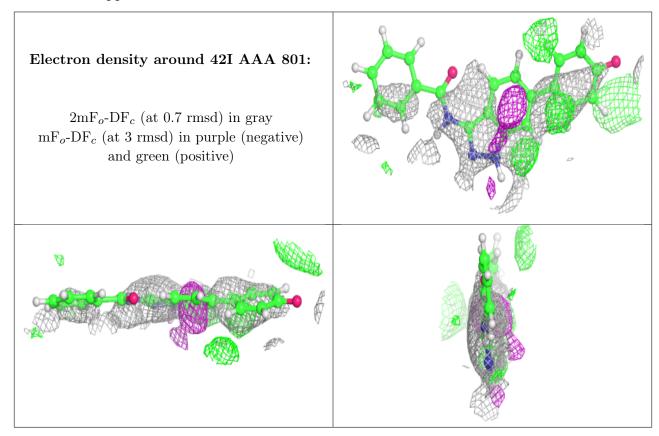
6.4 Ligands (i)

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.

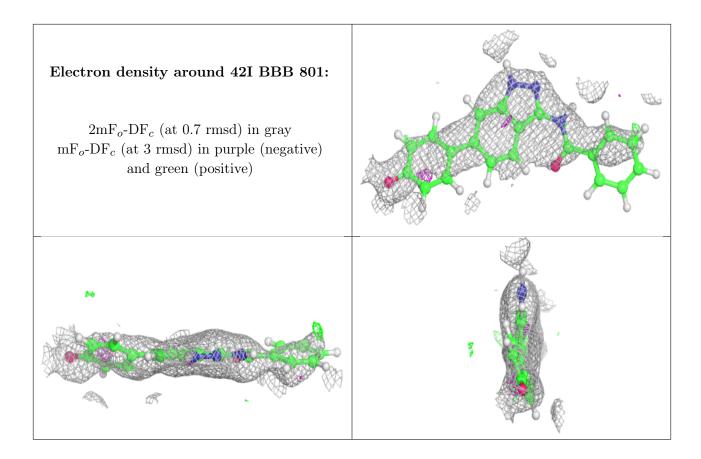
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	42I	AAA	801	25/25	0.55	0.41	69,107,116,119	0
2	42I	BBB	801	25/25	0.75	0.26	52,72,93,96	0
3	SO4	AAA	806	5/5	0.86	0.21	90,92,95,102	0
3	SO4	AAA	805	5/5	0.87	0.35	115,118,127,129	0
3	SO4	BBB	803	5/5	0.87	0.27	107,109,111,117	0
3	SO4	AAA	804	5/5	0.94	0.30	89,90,93,95	0
4	EDO	BBB	805	4/4	0.94	0.19	38,43,44,44	1
3	SO4	BBB	804	5/5	0.95	0.20	112,114,119,121	0
3	SO4	AAA	802	5/5	0.95	0.14	47,62,69,69	0
4	EDO	AAA	807	4/4	0.96	0.18	42,44,44,44	1
4	EDO	AAA	808	4/4	0.96	0.18	41,42,44,44	1
3	SO4	BBB	802	5/5	0.96	0.12	46,59,66,67	0
4	EDO	BBB	806	4/4	0.96	0.18	51,53,54,56	1
3	SO4	AAA	803	5/5	0.98	0.14	79,80,81,84	0
4	EDO	AAA	809	4/4	0.98	0.07	35,37,38,39	1



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.

