

Full wwPDB X-ray Structure Validation Report (i)

Nov 9, 2021 – 01:24 AM EST

PDB ID : 5PAF

Title : Crystal Structure of Factor VIIa in complex with N-(2-amino-1H-benzimidaz

ol-5-yl)-2-[3-[(2-amino-2-oxoethyl)-methylsulfonylamino]-5-chlorophenyl]aceta

mide;2,2,2-trifluoroacetic acid

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Deposited on : 2016-11-10

Resolution : 1.50 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

Mogul: 1.8.5 (274361), CSD as541be (2020)

 $Xtriage\ (Phenix) \quad : \quad 1.13$

EDS : 2.23.2buster-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)

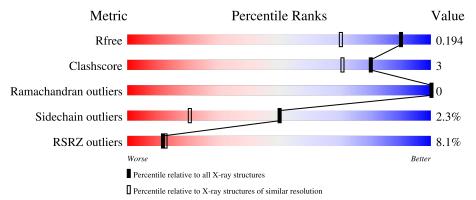
Validation Pipeline (wwPDB-VP) : 2.23.2

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 1.50 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{A})}) \end{array}$
R_{free}	130704	2936 (1.50-1.50)
Clashscore	141614	3144 (1.50-1.50)
Ramachandran outliers	138981	3066 (1.50-1.50)
Sidechain outliers	138945	3064 (1.50-1.50)
RSRZ outliers	127900	2884 (1.50-1.50)

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	· · ·						
			19%							
1	A	64	80%	11%	9%					
_	_		5%							
2	В	254	91%		7% ••					

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
3	GOL	В	507	-	-	X	-
8	TFA	В	509	-	-	-	X



2 Entry composition (i)

There are 9 unique types of molecules in this entry. The entry contains 2943 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.

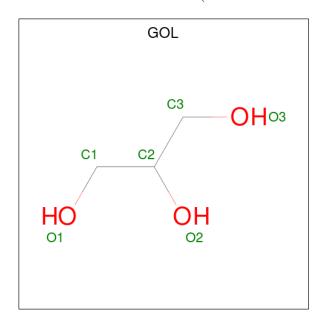
• Molecule 1 is a protein called Coagulation factor VII light chain.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Λ	58	Total	С	N	О	S	0	9	0
1	А	90	445	270	78	90	7	0		U

• Molecule 2 is a protein called Coagulation factor VII heavy chain.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
2	В	250	Total 2058	C 1309	N 374	O 361	S 14	0	17	0

• Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 12 6 6	0	1
3	A	1	Total C O 6 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	В	1	Total C O 6 3 3	0	0
3	В	1	Total C O 6 3 3	0	0

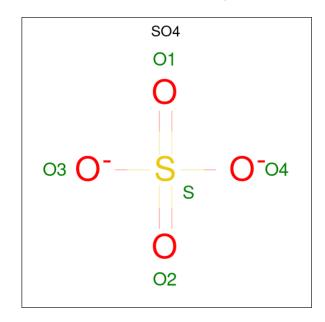
• Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	В	1	Total Ca 1 1	0	0

• Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	В	1	Total Cl 1 1	0	0

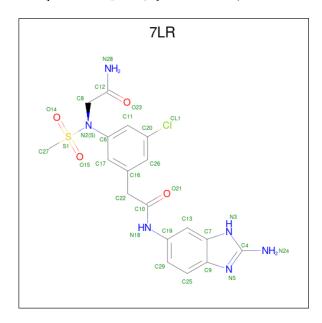
• Molecule 6 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



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

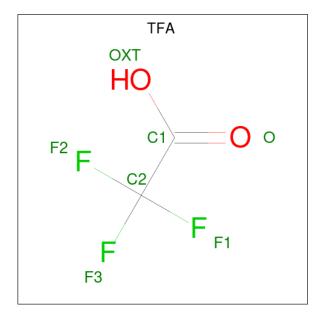


• Molecule 7 is N-(2-amino-1H-benzimidazol-5-yl)-2-[3-[(2-amino-2-oxoethyl)-methylsulfonyla mino]-5-chlorophenyl]acetamide (three-letter code: 7LR) (formula: $C_{18}H_{19}ClN_6O_4S$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
7	В	1	Total	C 18	Cl 1	N 6	O 1	S 1	0	0

 \bullet Molecule 8 is trifluoroacetic acid (three-letter code: TFA) (formula: $\mathrm{C_2HF_3O_2}).$



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
8	В	1	Total 7	C 2	F 3	O 2	0	0



• Molecule 9 is water.

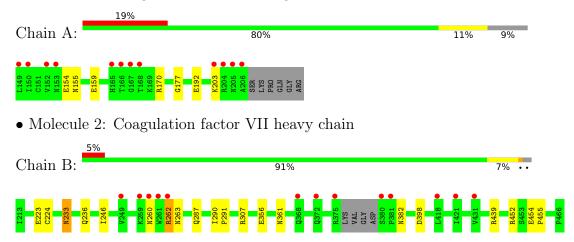
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	65	Total O 65 65	0	0
9	В	291	Total O 291 291	0	0



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: Coagulation factor VII light chain





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants	95.05Å 95.05Å 116.66Å	Donositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.57 - 1.50	Depositor
rtesolution (A)	30.06 - 1.50	EDS
% Data completeness	97.1 (30.57-1.50)	Depositor
(in resolution range)	97.2 (30.06-1.50)	EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	0.79 (at 1.50Å)	Xtriage
Refinement program	REFMAC 5.8.0155	Depositor
D D.	0.165 , 0.185	Depositor
R, R_{free}	0.175 , 0.194	DCC
R_{free} test set	4241 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	18.2	Xtriage
Anisotropy	0.164	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.39, 51.1	EDS
L-test for twinning ²	$ < L >=0.48, < L^2>=0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	2943	wwPDB-VP
Average B, all atoms (Å ²)	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.28% 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, TFA, CL, 7LR, GOL, CA

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			nd lengths	Bond angles		
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z >5	
1	A	1.29	3/458 (0.7%)	1.23	3/618 (0.5%)	
2	В	1.14	1/2153 (0.0%)	1.15	4/2924 (0.1%)	
All	All	1.17	4/2611 (0.2%)	1.16	7/3542 (0.2%)	

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(\text{\AA})$
1	A	192	GLU	CD-OE2	-6.84	1.18	1.25
2	В	356	GLU	CD-OE1	-6.07	1.19	1.25
1	A	177	GLY	N-CA	-5.77	1.37	1.46
1	A	159	GLU	C-O	5.02	1.32	1.23

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	A	170	ARG	NE-CZ-NH1	7.62	124.11	120.30
2	В	454	GLU	OE1-CD-OE2	7.49	132.29	123.30
1	A	170	ARG	NE-CZ-NH2	-6.91	116.84	120.30
2	В	398	ASP	CB-CG-OD1	6.71	124.33	118.30
2	В	439	ARG	NE-CZ-NH1	5.83	123.22	120.30
2	В	233	ASN	N-CA-CB	-5.79	100.18	110.60
1	A	159	GLU	OE1-CD-OE2	-5.23	117.02	123.30

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	445	0	422	1	0
2	В	2058	0	2073	10	0
3	A	18	0	24	0	0
3	В	12	0	16	4	0
4	В	1	0	0	0	0
5	В	1	0	0	0	0
6	В	15	0	0	0	0
7	В	30	0	0	0	0
8	В	7	0	0	0	0
9	A	65	0	0	1	0
9	В	291	0	0	8	0
All	All	2943	0	2535	14	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 3.

All (14) 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:452[B]:ARG:NH2	9:B:601:HOH:O	1.81	1.10
3:B:507:GOL:H32	9:B:649:HOH:O	1.87	0.73
2:B:224:CYS:HB3	9:B:808:HOH:O	1.99	0.62
3:B:507:GOL:O2	9:B:602:HOH:O	2.09	0.60
1:A:155:ASN:OD1	9:A:401:HOH:O	2.17	0.58
2:B:223:GLU:HB3	3:B:507:GOL:H2	1.89	0.55
2:B:262[A]:ARG:NH2	9:B:605:HOH:O	2.43	0.51
3:B:507:GOL:H12	9:B:789:HOH:O	2.13	0.49
2:B:246[A]:ILE:HG12	9:B:762:HOH:O	2.13	0.48
2:B:307[C]:ARG:CZ	2:B:455:PRO:HB3	2.43	0.48
2:B:260[B]:ASN:ND2	2:B:263:ASN:OD1	2.50	0.45
2:B:290:ILE:HG23	2:B:291:PRO:HD2	1.99	0.44
2:B:233:ASN:HD21	2:B:260[B]:ASN:ND2	2.16	0.44
2:B:236:GLN:HG2	9:B:668:HOH:O	2.18	0.42

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	entiles
1	A	58/64 (91%)	55 (95%)	3 (5%)	0	100	100
2	В	264/254 (104%)	256 (97%)	8 (3%)	0	100	100
All	All	322/318 (101%)	311 (97%)	11 (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	Percentiles		
1	A	52/55~(94%)	50 (96%)	2 (4%)	33	7	
2	В	229/216 (106%)	224 (98%)	5 (2%)	52	22	
All	All	281/271 (104%)	274 (98%)	7 (2%)	50	18	

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	154	GLU
1	A	203	LYS
2	В	262[A]	ARG
2	В	262[B]	ARG
2	В	287	GLN
2	В	361	ASN
2	В	382	ASN



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

Mol	Chain	Res	Type
2	В	233	ASN
2	В	361	ASN
2	В	382	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)

Of 12 ligands modelled in this entry, 2 are monoatomic - leaving 10 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	Trimo	Chain	Res	Link	В	ond leng	gths	В	ond ang	gles
MIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	SO4	В	505	-	4,4,4	0.59	0	6,6,6	0.55	0
7	7LR	В	508	-	32,32,32	1.53	5 (15%)	37,47,47	2.05	11 (29%)
8	TFA	В	509	-	3,6,6	3.02	3 (100%)	3,9,9	1.04	0
3	GOL	A	301[A]	-	5,5,5	0.38	0	5,5,5	1.13	0
3	GOL	В	507	-	5,5,5	0.47	0	5,5,5	0.80	0
3	GOL	A	302	-	5,5,5	0.69	0	5,5,5	1.69	1 (20%)
3	GOL	В	506	-	5,5,5	0.45	0	5,5,5	0.93	0
6	SO4	В	504	-	4,4,4	0.22	0	6,6,6	0.67	0



Mol	Trino	Chain	Dec	T inl	В	ond leng	$_{ m gths}$	В	ond ang	gles
MIOI	$oxed{l Type }$	Chain	Res	Link	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	GOL	A	301[B]	-	5,5,5	0.82	0	5,5,5	0.89	0
6	SO4	В	503	-	4,4,4	0.33	0	6,6,6	0.70	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
8	TFA	В	509	-	-	0/0/6/6	-
7	7LR	В	508	-	-	4/22/22/22	0/3/3/3
3	GOL	A	301[A]	-	-	2/4/4/4	-
3	GOL	В	507	-	-	4/4/4/4	-
3	GOL	A	302	-	-	1/4/4/4	-
3	GOL	В	506	-	-	0/4/4/4	-
3	GOL	A	301[B]	-	-	1/4/4/4	-

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\mathring{A}})$	$Ideal(\AA)$
7	В	508	7LR	C27-S1	3.79	1.84	1.75
7	В	508	7LR	C13-C7	-3.63	1.36	1.41
8	В	509	TFA	F1-C2	3.15	1.44	1.32
8	В	509	TFA	F2-C2	3.08	1.44	1.32
7	В	508	7LR	C4-N3	-3.00	1.29	1.34
8	В	509	TFA	F3-C2	2.83	1.43	1.32
7	В	508	7LR	C4-N24	2.59	1.39	1.33
7	В	508	7LR	C6-N2	-2.12	1.41	1.44

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
7	В	508	7LR	O15-S1-N2	4.71	113.32	107.56
7	В	508	7LR	O14-S1-N2	-4.64	101.87	107.56
7	В	508	7LR	C8-N2-C6	4.04	122.02	116.59
7	В	508	7LR	O15-S1-C27	-3.93	103.14	108.44
7	В	508	7LR	C8-C12-N28	3.66	121.64	115.86
7	В	508	7LR	C19-N18-C10	-3.34	121.65	127.50
3	A	302	GOL	C3-C2-C1	-3.04	99.87	111.70
7	В	508	7LR	C6-C11-C20	-2.68	115.01	118.90
7	В	508	7LR	C11-C20-CL1	-2.45	116.08	119.15

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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
7	В	508	7LR	C26-C20-CL1	2.15	121.83	119.15
7	В	508	7LR	C17-C6-N2	-2.12	115.17	119.31
7	В	508	7LR	C19-C13-C7	-2.04	118.27	120.50

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	301[A]	GOL	C1-C2-C3-O3
3	A	301[A]	GOL	O2-C2-C3-O3
3	В	507	GOL	O1-C1-C2-C3
3	В	507	GOL	C1-C2-C3-O3
7	В	508	7LR	O23-C12-C8-N2
7	В	508	7LR	N28-C12-C8-N2
3	В	507	GOL	O1-C1-C2-O2
3	A	301[B]	GOL	O1-C1-C2-C3
3	В	507	GOL	O2-C2-C3-O3
7	В	508	7LR	C17-C16-C22-C10
7	В	508	7LR	C26-C16-C22-C10
3	A	302	GOL	O1-C1-C2-O2

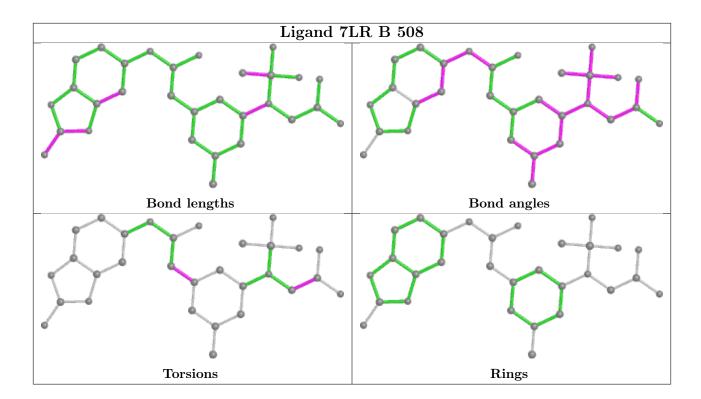
There are no ring outliers.

1 monomer is involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	В	507	GOL	4	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	$\langle { m RSRZ} \rangle$	$\# \mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	58/64 (90%)	1.10	12 (20%) 1 1	14, 21, 72, 80	0
2	В	250/254~(98%)	0.17	13 (5%) 27 30	12, 19, 41, 80	0
All	All	308/318 (96%)	0.34	25 (8%) 12 12	12, 19, 54, 80	0

All (25) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	В	380	SER	12.1
1	A	206	ALA	11.1
1	A	166	THR	9.8
1	A	149	LEU	9.4
1	A	205	ASN	7.1
1	A	168	THR	6.9
1	A	152	VAL	6.2
1	A	150	ILE	5.3
2	В	375	ARG	4.9
1	A	204	ARG	4.7
1	A	165	HIS	4.4
1	A	167	GLY	4.3
1	A	203	LYS	4.2
2	В	259	LYS	3.9
2	В	372	GLN	3.8
2	В	261	TRP	3.7
2	В	381	PRO	3.6
2	В	260[A]	ASN	3.6
2	В	262[A]	ARG	3.6
1	A	153	ASN	3.4
2	В	368	GLN	2.7
2	В	418	LEU	2.6
2	В	421	ILE	2.4
2	В	431	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
2	В	249	VAL	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.

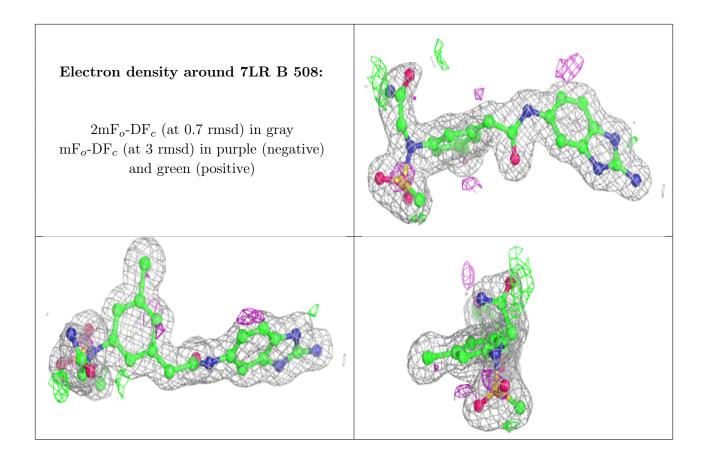
6.4 Ligands (i)

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	$ m B ext{-}factors(\AA^2)$	Q<0.9
8	TFA	В	509	7/7	0.64	0.47	28,62,69,80	0
5	CL	В	502	1/1	0.83	0.14	73,73,73,73	0
3	GOL	В	506	6/6	0.91	0.12	30,41,48,62	0
3	GOL	A	302	6/6	0.92	0.13	29,41,44,51	0
6	SO4	В	505	5/5	0.92	0.26	35,49,55,55	0
3	GOL	В	507	6/6	0.92	0.14	42,44,49,56	0
3	GOL	A	301[A]	6/6	0.94	0.20	23,30,32,32	6
3	GOL	A	301[B]	6/6	0.94	0.20	19,26,30,33	6
7	7LR	В	508	30/30	0.95	0.08	18,23,44,46	0
6	SO4	В	503	5/5	0.98	0.14	38,38,47,48	0
6	SO4	В	504	5/5	0.99	0.04	22,24,30,30	0
4	CA	В	501	1/1	0.99	0.19	29,29,29,29	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.

