

wwPDB X-ray Structure Validation Summary Report (i)

Aug 29, 2023 - 07:53 AM EDT

PDB ID	:	3MSS
Title	:	Abl kinase in complex with imatinib and fragment (FRAG2) in the myristate
		site
Authors	:	Cowan-Jacob, S.W.; Rummel, G.; Fendrich, G.
Deposited on	:	2010-04-29
Resolution	:	1.95 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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:

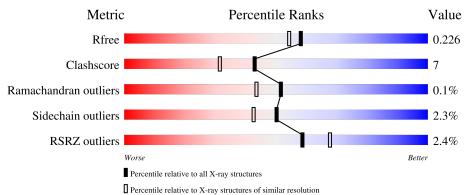
MolProbity	:	4.02b-467 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)		
EDS	:	2.35
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 1.95 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	$\begin{array}{c} \textbf{Whole archive} \\ \textbf{(\#Entries)} \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	2580 (1.96-1.96)
Clashscore	141614	2705 (1.96-1.96)
Ramachandran outliers	138981	2678 (1.96-1.96)
Sidechain outliers	138945	2678 (1.96-1.96)
RSRZ outliers	127900	2539 (1.96-1.96)

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	А	293	^{2%} 77 %	11%	• 10%
1	В	293	78%	11%	• 10%
1	С	293	^{2%} 7 6%	13%	• 10%
1	D	293	% • 75%	14%	10%



3MSS

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 9563 atoms, of which 0 are hydrogens and 0 are deuteriums.

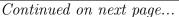
In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	Δ	264	Total	С	Ν	0	S	0	0	0
	А	264	2151	1390	350	394	17	0		
1	В	264	Total	С	Ν	0	S	0	0	0
	D	204	2151	1390	350	394	17	0		
1	С	264	Total	С	Ν	0	S	0	0	0
	C	204	2151	1390	350	394	17	0		0
1	П	264	Total	С	Ν	0		0	0	0
I D	264	2151	1390	350	394	17		U	0	

• Molecule 1 is a protein called Tyrosine-protein kinase ABL1.

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	223	GLY	-	expression tag	UNP P00520
А	224	ALA	-	expression tag	UNP P00520
А	225	MET	-	expression tag	UNP P00520
A	226	ASP	-	expression tag	UNP P00520
А	227	PRO	-	expression tag	UNP P00520
A	228	SER	-	expression tag	UNP P00520
В	223	GLY	-	expression tag	UNP P00520
В	224	ALA	-	expression tag	UNP P00520
В	225	MET	-	expression tag	UNP P00520
В	226	ASP	-	expression tag	UNP P00520
В	227	PRO	-	expression tag	UNP P00520
В	228	SER	-	expression tag	UNP P00520
С	223	GLY	-	expression tag	UNP P00520
С	224	ALA	-	expression tag	UNP P00520
С	225	MET	-	expression tag	UNP P00520
С	226	ASP	-	expression tag	UNP P00520
С	227	PRO	-	expression tag	UNP P00520
С	228	SER	-	expression tag	UNP P00520
D	223	GLY	-	expression tag	UNP P00520
D	224	ALA	-	expression tag	UNP P00520
D	225	MET	-	expression tag	UNP P00520

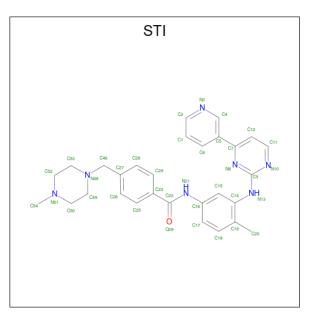




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Chain	Residue	Modelled	Actual	Comment	Reference
D	226	ASP	-	expression tag	UNP P00520
D	227	PRO	-	expression tag	UNP P00520
D	228	SER	-	expression tag	UNP P00520

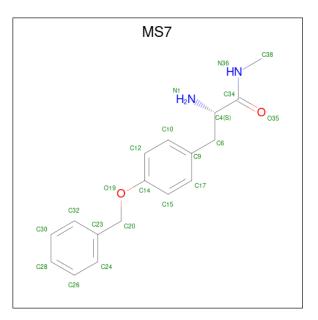
• Molecule 2 is 4-(4-METHYL-PIPERAZIN-1-YLMETHYL)-N-[4-METHYL-3-(4-PYRID IN-3-YL-PYRIMIDIN-2-YLAMINO)-PHENYL]-BENZAMIDE (three-letter code: STI) (formula: C₂₉H₃₁N₇O).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	А	1	Total 37	•	N 7	-	0	0
2	В	1	Total 37	0	N 7	0 1	0	0
2	С	1	Total 37	<u> </u>	N 7	0 1	0	0
2	D	1	Total 37	C 29	N 7	0 1	0	0

• Molecule 3 is O-benzyl-N-methyl-L-tyrosinamide (three-letter code: MS7) (formula: $C_{17}H_{20}N_2O_2$).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	А	1	Total	-	Ν	Ο	0	0
0	11	Ĩ	21	17		2	0	Ū
3	В	1	Total	С	Ν	Ο	0	0
5	D	1	21	17	2	2	0	0
3	С	1	Total	С	Ν	Ο	0	0
0	C	1	21	17	2	2	0	0
3	р	1	Total	С	Ν	Ο	0	0
0	D	1	21	17	2	2	0	0

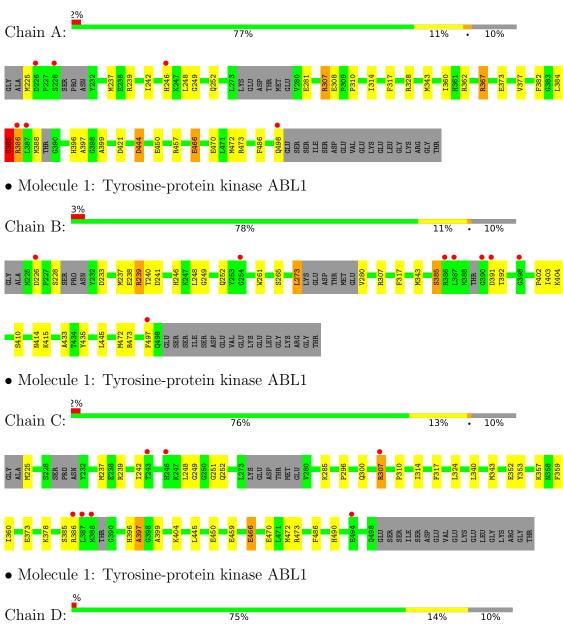
• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	184	Total O 184 184	0	0
4	В	177	Total O 177 177	0	0
4	С	180	Total O 180 180	0	0
4	D	186	Total O 186 186	0	0



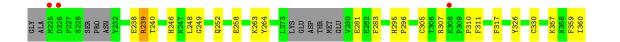
3 Residue-property plots (i)

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: Tyrosine-protein kinase ABL1







4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	116.22Å 146.78Å 95.81Å	Denesiton
a, b, c, α , β , γ	90.00° 127.07° 90.00°	Depositor
Resolution (Å)	52.93 - 1.95	Depositor
Resolution (A)	36.34 - 1.96	EDS
% Data completeness	96.6 (52.93-1.95)	Depositor
(in resolution range)	96.2 (36.34-1.96)	EDS
R _{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.32 (at 1.95 Å)	Xtriage
Refinement program	REFMAC 5.5.0102	Depositor
D D.	0.169 , 0.220	Depositor
R, R_{free}	0.175 , 0.226	DCC
R_{free} test set	4461 reflections (5.00%)	wwPDB-VP
Wilson B-factor $(Å^2)$	33.3	Xtriage
Anisotropy	0.122	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.36 , 31.7	EDS
L-test for twinning ²	$< L >=0.49, < L^2>=0.32$	Xtriage
	0.026 for -h,-h-2*l,1/2*h-1/2*k	
Estimated twinning fraction	0.025 for -h,h+2*l,1/2*h+1/2*k	Xtriage
	0.457 for h,-k,-h-l	
$\mathbf{F}_o, \mathbf{F}_c$ correlation	0.97	EDS
Total number of atoms	9563	wwPDB-VP
Average B, all atoms $(Å^2)$	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.71% 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: STI, MS7

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	Bond lengths		ond angles
	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	1.19	6/2206~(0.3%)	1.01	10/2982~(0.3%)
1	В	1.15	2/2206~(0.1%)	0.96	6/2982~(0.2%)
1	С	1.15	5/2206~(0.2%)	0.96	5/2982~(0.2%)
1	D	1.13	1/2206~(0.0%)	0.93	2/2982~(0.1%)
All	All	1.16	14/8824~(0.2%)	0.97	23/11928~(0.2%)

The worst 5 of 14 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	А	466	GLU	CG-CD	6.88	1.62	1.51
1	А	450	GLU	CG-CD	6.24	1.61	1.51
1	В	385	SER	CB-OG	-6.18	1.34	1.42
1	С	385	SER	CB-OG	-5.86	1.34	1.42
1	С	459	GLU	CG-CD	5.81	1.60	1.51

The worst 5 of 23 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	С	473	ARG	NE-CZ-NH2	-13.28	113.66	120.30
1	А	473	ARG	NE-CZ-NH2	-12.80	113.90	120.30
1	В	473	ARG	NE-CZ-NH2	-10.44	115.08	120.30
1	С	473	ARG	NE-CZ-NH1	9.20	124.90	120.30
1	А	343	MET	CG-SD-CE	-8.48	86.64	100.20

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	А	2151	0	2105	30	1
1	В	2151	0	2105	19	0
1	С	2151	0	2105	35	0
1	D	2151	0	2105	30	0
2	А	37	0	31	1	0
2	В	37	0	31	0	0
2	С	37	0	31	1	0
2	D	37	0	31	1	0
3	А	21	0	20	1	0
3	В	21	0	20	1	0
3	С	21	0	20	1	0
3	D	21	0	20	1	0
4	А	184	0	0	13	0
4	В	177	0	0	7	0
4	С	180	0	0	12	1
4	D	186	0	0	7	2
All	All	9563	0	8624	119	2

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 7.

The worst 5 of 119 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:A:367:ARG:HD2	1:A:388:MET:CE	1.78	1.12
1:A:367:ARG:HD2	1:A:388:MET:HE3	1.40	0.98
3:A:516:MS7:H4	4:A:690:HOH:O	1.69	0.92
1:A:498:GLN:O	4:A:785:HOH:O	1.88	0.91
1:A:367:ARG:HD2	1:A:388:MET:HE1	1.51	0.91

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:466:GLU:OE2	4:D:523:HOH:O[4_454]	2.08	0.12
4:C:211:HOH:O	4:D:572:HOH:O[4_454]	2.18	0.02

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	ntiles
1	А	256/293~(87%)	245~(96%)	11 (4%)	0	100	100
1	В	256/293~(87%)	246 (96%)	10 (4%)	0	100	100
1	С	256/293~(87%)	245 (96%)	10 (4%)	1 (0%)	34	22
1	D	256/293~(87%)	245 (96%)	11 (4%)	0	100	100
All	All	1024/1172~(87%)	981 (96%)	42 (4%)	1 (0%)	51	43

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	С	397	ALA

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	230/255~(90%)	224~(97%)	6 (3%)	46 36
1	В	230/255~(90%)	224~(97%)	6 (3%)	46 36
1	С	230/255~(90%)	228~(99%)	2(1%)	78 77

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	D	230/255~(90%)	223~(97%)	7 (3%)	41 30
All	All	920/1020~(90%)	899~(98%)	21 (2%)	50 42

5 of 21 residues with a non-rotameric side chain are listed below:

Mol	Chain	Res	Type
1	D	239	ARG
1	D	357	LYS
1	D	391	ASP
1	D	373	GLU
1	D	307	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 7 such sidechains are listed below:

Mol	Chain	Res	Type
1	С	490	HIS
1	D	246	HIS
1	D	477	GLN
1	D	396	HIS
1	С	447	GLN

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)

8 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
MOI	туре	Ullalli	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
3	MS7	А	516	-	22,22,22	1.29	1 (4%)	28,28,28	1.30	4 (14%)
3	MS7	В	516	-	22,22,22	1.13	1 (4%)	28,28,28	1.00	1 (3%)
2	STI	С	1	-	40,41,41	1.38	6 (15%)	51,56,56	2.09	11 (21%)
3	MS7	С	516	-	22,22,22	1.19	1 (4%)	28,28,28	1.11	3 (10%)
2	STI	D	1	-	40,41,41	1.23	3 (7%)	51,56,56	2.21	18 (35%)
2	STI	В	1	-	40,41,41	1.34	4 (10%)	51,56,56	1.90	13 (25%)
2	STI	А	1	-	40,41,41	1.52	10 (25%)	51,56,56	2.32	13 (25%)
3	MS7	D	516	-	22,22,22	1.23	1 (4%)	28,28,28	1.11	2 (7%)

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	MS7	А	516	-	-	0/15/15/15	0/2/2/2
3	MS7	В	516	-	-	3/15/15/15	0/2/2/2
2	STI	С	1	-	-	1/16/30/30	0/5/5/5
3	MS7	С	516	-	-	4/15/15/15	0/2/2/2
2	STI	D	1	-	-	3/16/30/30	0/5/5/5
2	STI	В	1	-	-	2/16/30/30	0/5/5/5
2	STI	А	1	-	-	1/16/30/30	0/5/5/5
3	MS7	D	516	-	-	4/15/15/15	0/2/2/2

The worst 5 of 27 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	516	MS7	C34-N36	4.19	1.39	1.33
3	А	516	MS7	C34-N36	3.95	1.38	1.33
3	В	516	MS7	C34-N36	3.79	1.38	1.33
3	С	516	MS7	C34-N36	3.73	1.38	1.33
2	А	1	STI	C46-C27	3.73	1.58	1.51

The worst 5 of 65 bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
2	D	1	STI	N10-C9-N8	-6.87	119.88	126.52
2	А	1	STI	C11-N10-C9	6.65	121.35	115.45
2	А	1	STI	N10-C9-N8	-6.42	120.32	126.52
2	С	1	STI	N10-C9-N8	-6.35	120.39	126.52
2	С	1	STI	C11-N10-C9	6.09	120.85	115.45

There are no chirality outliers.

5 of 18 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	А	1	STI	C15-C14-N13-C9
2	В	1	STI	C15-C14-N13-C9
2	С	1	STI	C15-C14-N13-C9
2	D	1	STI	C15-C14-N13-C9
3	С	516	MS7	O35-C34-C4-N1

There are no ring outliers.

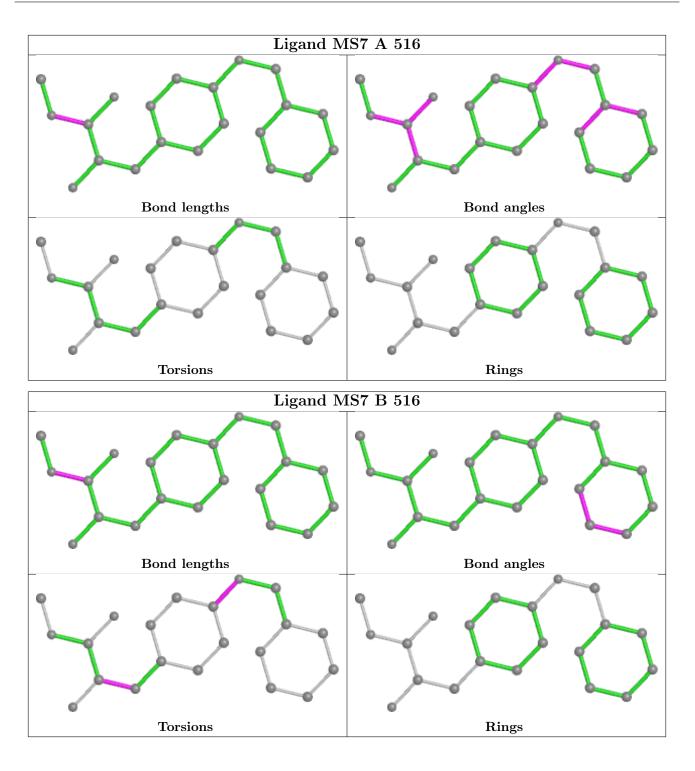
7 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	А	516	MS7	1	0
3	В	516	MS7	1	0
2	С	1	STI	1	0
3	С	516	MS7	1	0
2	D	1	STI	1	0
2	А	1	STI	1	0
3	D	516	MS7	1	0

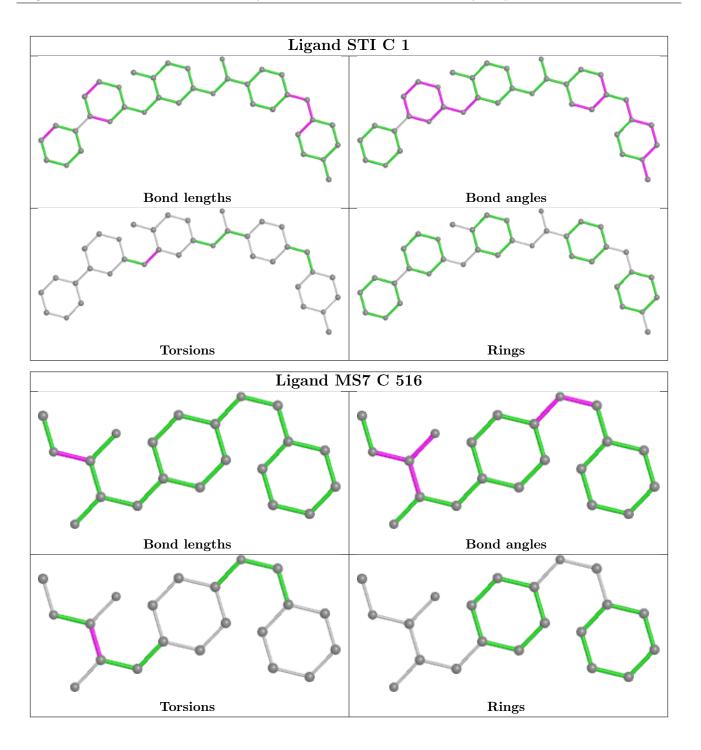
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 sufficient the outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



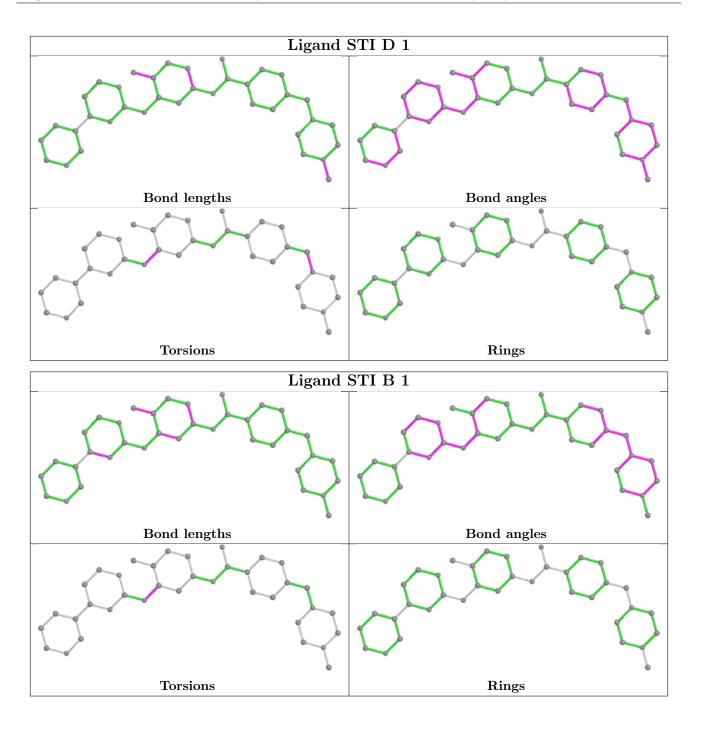




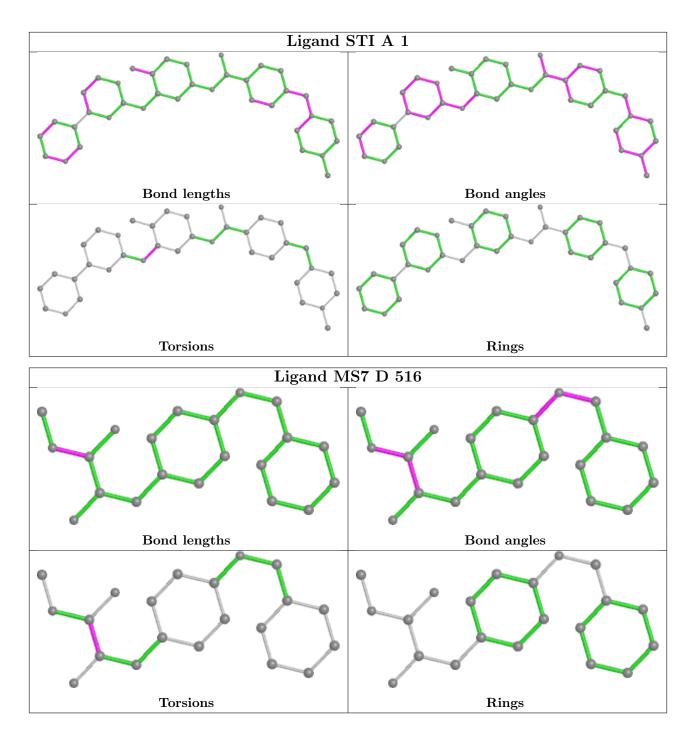












5.7 Other polymers (i)

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	$\langle RSRZ \rangle$	# RSRZ > 2	$OWAB(Å^2)$	$\mathbf{Q}{<}0.9$
1	А	264/293~(90%)	0.09	6 (2%) 60 69	15, 25, 45, 54	0
1	В	264/293~(90%)	0.19	8 (3%) 50 59	15, 24, 45, 58	0
1	С	264/293~(90%)	0.11	7 (2%) 54 63	16, 25, 45, 53	0
1	D	264/293~(90%)	0.13	4 (1%) 73 81	16, 25, 45, 56	0
All	All	1056/1172~(90%)	0.13	25 (2%) 59 68	15, 25, 46, 58	0

The worst 5 of 25 RSRZ outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	RSRZ
1	С	246	HIS	4.4
1	В	391	ASP	3.7
1	С	388	MET	3.6
1	D	308	GLU	3.2
1	А	246	HIS	3.2

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.

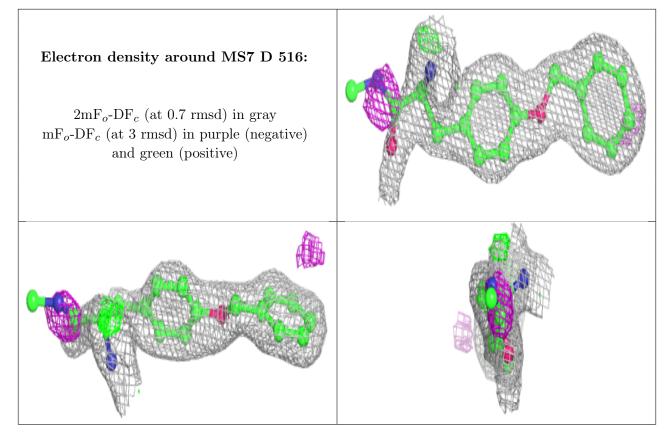
6.4 Ligands (i)

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.

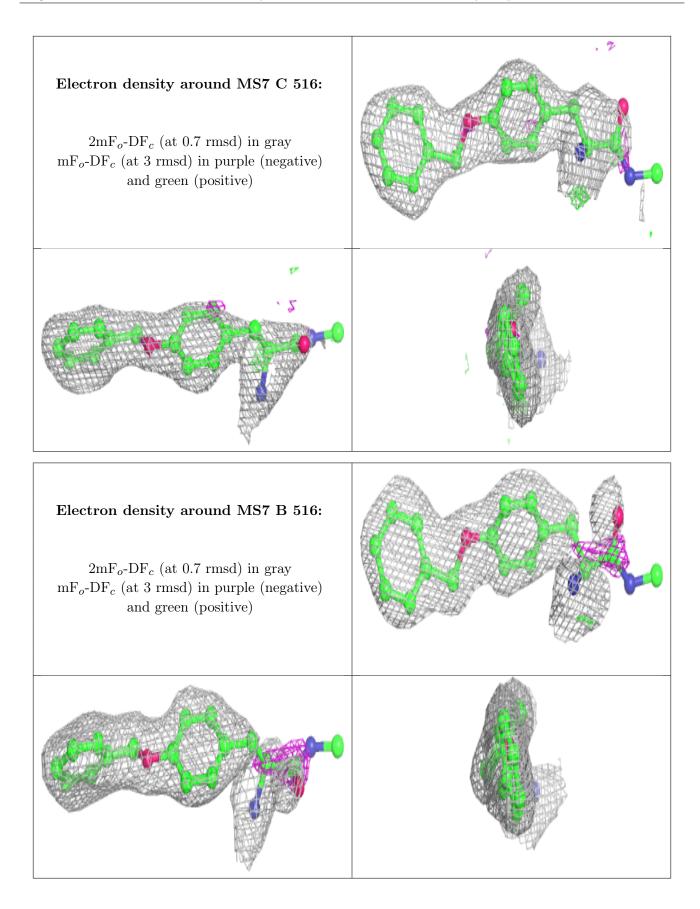


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q < 0.9
3	MS7	D	516	21/21	0.85	0.21	30,37,61,62	0
3	MS7	С	516	21/21	0.86	0.20	29,35,59,60	0
3	MS7	В	516	21/21	0.86	0.18	29,35,62,63	0
3	MS7	А	516	21/21	0.89	0.16	$26,\!34,\!57,\!58$	0
2	STI	В	1	37/37	0.93	0.10	18,22,27,28	0
2	STI	С	1	37/37	0.96	0.09	17,22,30,31	0
2	STI	D	1	37/37	0.96	0.09	17,22,27,27	0
2	STI	А	1	37/37	0.96	0.12	$19,\!22,\!26,\!27$	0

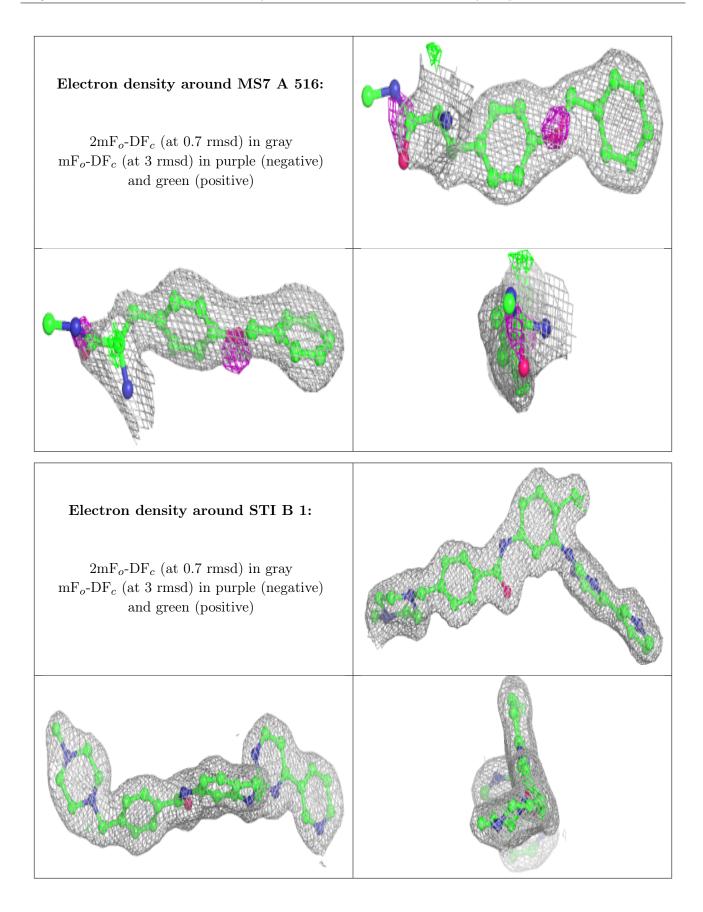
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



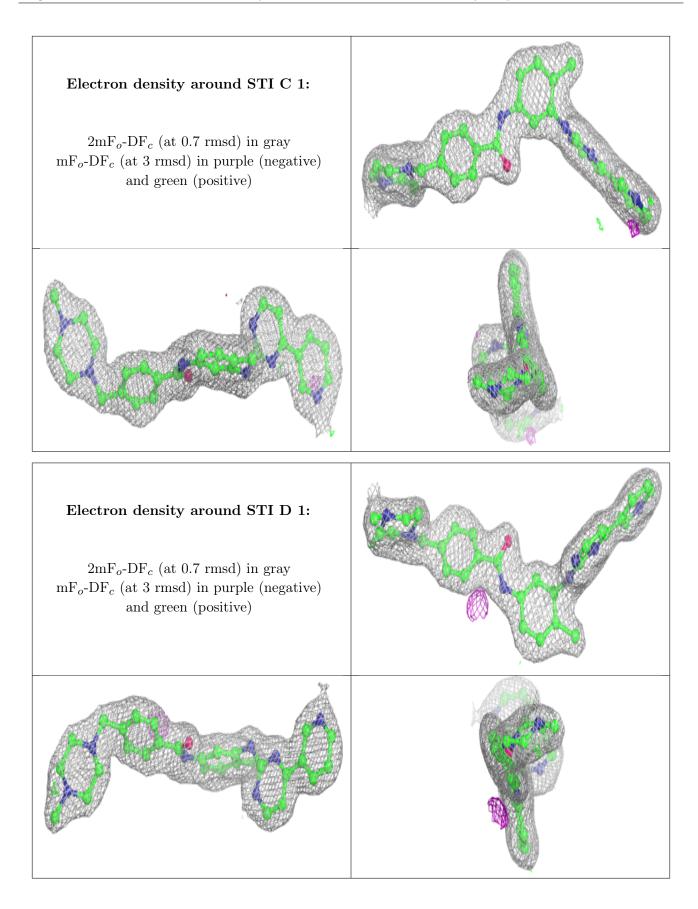




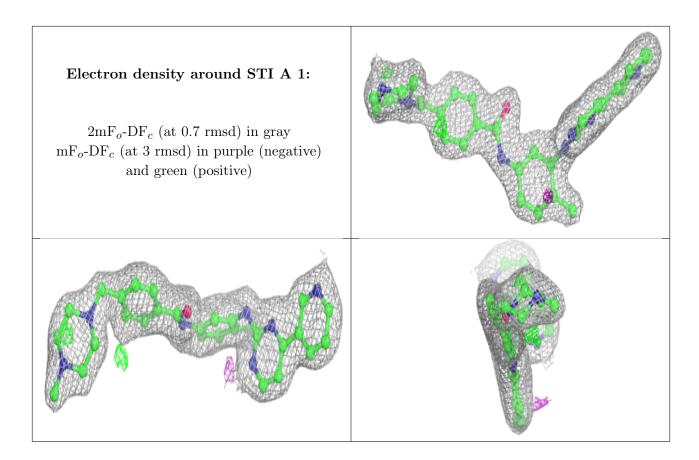












6.5 Other polymers (i)

There are no such residues in this entry.

