



wwPDB X-ray Structure Validation Summary Report ⓘ

Sep 13, 2021 – 07:35 PM EDT

PDB ID : 7RS7
Title : Crystal Structure of the ER-alpha Ligand-binding Domain (L372S, L536S) in complex with DMERI-30
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Deposited on : 2021-08-11
Resolution : 1.58 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 ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.23.1
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) : 2.23.1

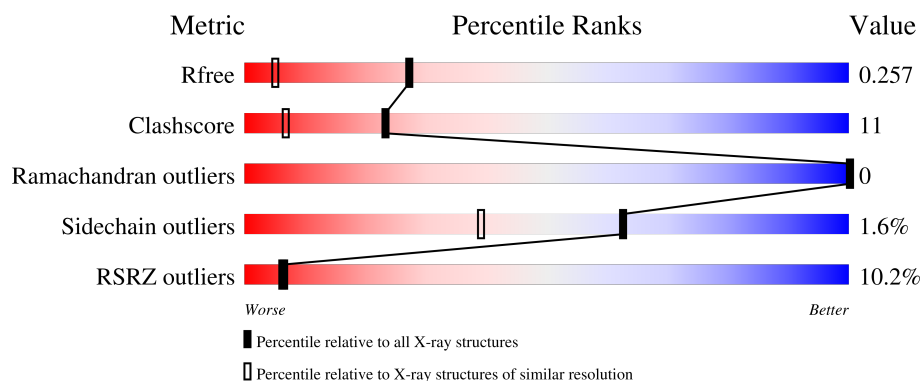
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.58 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}	130704	5534 (1.60-1.56)
Clashscore	141614	5861 (1.60-1.56)
Ramachandran outliers	138981	5708 (1.60-1.56)
Sidechain outliers	138945	5703 (1.60-1.56)
RSRZ outliers	127900	5431 (1.60-1.56)

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	257	 10% 79% 15% • 5%
1	B	257	 8% 77% 12% 11%
1	C	257	 9% 80% 14% 5%
1	D	257	 10% 79% 13% 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
2	73I	A	601[A]	-	-	X	-
2	73I	A	601[B]	-	-	X	-

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 8171 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 Estrogen receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	244	Total	C	N	O	S	0	1	0
			1955	1249	334	355	17			
1	B	228	Total	C	N	O	S	0	0	0
			1825	1170	308	330	17			
1	C	244	Total	C	N	O	S	0	1	0
			1959	1252	334	355	18			
1	D	239	Total	C	N	O	S	0	0	0
			1903	1217	323	345	18			

There are 8 discrepancies between the modelled and reference sequences:

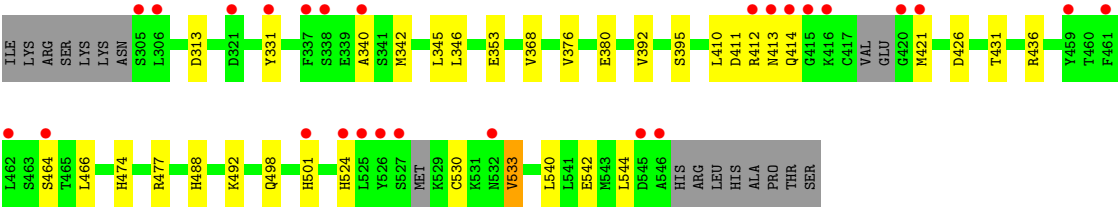
Chain	Residue	Modelled	Actual	Comment	Reference
A	372	SER	LEU	engineered mutation	UNP P03372
A	536	SER	LEU	engineered mutation	UNP P03372
B	372	SER	LEU	engineered mutation	UNP P03372
B	536	SER	LEU	engineered mutation	UNP P03372
C	372	SER	LEU	engineered mutation	UNP P03372
C	536	SER	LEU	engineered mutation	UNP P03372
D	372	SER	LEU	engineered mutation	UNP P03372
D	536	SER	LEU	engineered mutation	UNP P03372

- Molecule 2 is (1S,2R,4S,5S,6S)-N,5,6-tris(4-hydroxyphenyl)-N-(2,2,2-trifluoroethyl)-7-oxabicyclo[2.2.1]heptane-2-sulfonamide (three-letter code: 73I) (formula: C₂₆H₂₂F₃NO₆S) (labeled as "Ligand of Interest" by depositor).



- Molecule 3 is water.





4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	53.66Å 58.62Å 93.93Å 87.27° 74.87° 62.91°	Depositor
Resolution (Å)	90.37 – 1.58 90.36 – 1.58	Depositor EDS
% Data completeness (in resolution range)	70.1 (90.37-1.58) 70.1 (90.36-1.58)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.46 (at 1.58Å)	Xtriage
Refinement program	REFMAC 5.8.0253	Depositor
R, R_{free}	0.223 , 0.251 0.230 , 0.257	Depositor DCC
R_{free} test set	4633 reflections (4.93%)	wwPDB-VP
Wilson B-factor (Å ²)	21.0	Xtriage
Anisotropy	0.019	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 47.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.156 for h,h-k,h-l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	8171	wwPDB-VP
Average B, all atoms (Å ²)	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.23% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: 73I, YCM

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	0.66	0/1975	0.72	0/2669
1	B	0.66	0/1847	0.73	0/2493
1	C	0.66	0/1975	0.71	0/2668
1	D	0.67	0/1920	0.74	0/2591
All	All	0.66	0/7717	0.72	0/10421

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	A	0	2

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	304	ASN	Peptide
1	A	460	THR	Peptide

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	1955	0	1984	86	0
1	B	1825	0	1857	24	0
1	C	1959	0	1992	35	0
1	D	1903	0	1944	30	0
2	A	71	0	0	55	0
2	B	37	0	0	0	0
2	C	37	0	0	1	0
2	D	37	0	0	0	0
3	A	91	0	0	6	0
3	B	80	0	0	5	0
3	C	88	0	0	13	1
3	D	88	0	0	9	1
All	All	8171	0	7777	176	1

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 11.

The worst 5 of 176 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:387:LEU:HB3	2:A:601[B]:73I:C04	1.24	1.62
1:A:384:LEU:HD11	2:A:601[B]:73I:C13	1.56	1.35
1:A:387:LEU:HD13	2:A:601[B]:73I:C08	1.67	1.24
1:A:387:LEU:HB3	2:A:601[B]:73I:C02	1.71	1.20
1:A:387:LEU:CB	2:A:601[B]:73I:C04	2.21	1.16

All (1) 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)
3:C:782:HOH:O	3:D:757:HOH:O[1_645]	2.11	0.09

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	239/257 (93%)	237 (99%)	2 (1%)	0	100	100
1	B	219/257 (85%)	217 (99%)	2 (1%)	0	100	100
1	C	239/257 (93%)	235 (98%)	4 (2%)	0	100	100
1	D	232/257 (90%)	230 (99%)	2 (1%)	0	100	100
All	All	929/1028 (90%)	919 (99%)	10 (1%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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	218/230 (95%)	216 (99%)	2 (1%)	78	64
1	B	204/230 (89%)	198 (97%)	6 (3%)	42	16
1	C	218/230 (95%)	215 (99%)	3 (1%)	67	45
1	D	213/230 (93%)	210 (99%)	3 (1%)	67	45
All	All	853/920 (93%)	839 (98%)	14 (2%)	62	39

5 of 14 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	533	VAL
1	C	308	LEU
1	D	533	VAL
1	D	331	TYR
1	D	466	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 13 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	474	HIS

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Mol	Chain	Res	Type
1	C	519	ASN
1	D	532	ASN
1	D	488	HIS
1	D	519	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

7 non-standard protein/DNA/RNA residues 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		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
1	YCM	D	381	1	7,9,10	0.60	0	4,10,12	0.40	0
1	YCM	C	417	1	7,9,10	0.57	0	4,10,12	0.72	0
1	YCM	D	417	1	4,5,10	0.68	0	1,5,12	0.18	0
1	YCM	A	381	1	7,9,10	0.52	0	4,10,12	0.56	0
1	YCM	C	381	1	7,9,10	0.49	0	4,10,12	0.52	0
1	YCM	B	381	1	7,9,10	0.64	0	4,10,12	0.41	0
1	YCM	A	417	1	4,5,10	0.59	0	1,5,12	0.81	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
1	YCM	D	381	1	-	2/6/8/10	-
1	YCM	C	417	1	-	3/6/8/10	-
1	YCM	D	417	1	-	0/1/4/10	-
1	YCM	A	381	1	-	2/6/8/10	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	YCM	C	381	1	-	2/6/8/10	-
1	YCM	B	381	1	-	2/6/8/10	-
1	YCM	A	417	1	-	0/1/4/10	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 11 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	381	YCM	SG-CD-CE-NZ2
1	B	381	YCM	SG-CD-CE-NZ2
1	C	381	YCM	SG-CD-CE-NZ2
1	C	417	YCM	CE-CD-SG-CB
1	C	417	YCM	SG-CD-CE-OZ1

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	C	417	YCM	1	0

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

5 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		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	73I	B	601	-	38,41,41	2.84	13 (34%)	50,63,63	2.76	20 (40%)
2	73I	A	601[B]	-	38,41,41	2.97	18 (47%)	50,63,63	4.01	22 (44%)
2	73I	A	601[A]	-	36,38,41	3.19	19 (52%)	43,57,63	4.47	27 (62%)
2	73I	D	601	-	38,41,41	2.79	13 (34%)	50,63,63	2.88	21 (42%)
2	73I	C	601	-	38,41,41	2.87	15 (39%)	50,63,63	2.90	20 (40%)

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
2	73I	B	601	-	-	9/27/53/53	0/6/5/5
2	73I	A	601[B]	-	-	16/27/53/53	0/6/5/5
2	73I	A	601[A]	-	-	9/24/50/53	0/6/5/5
2	73I	D	601	-	-	10/27/53/53	0/6/5/5
2	73I	C	601	-	-	8/27/53/53	0/6/5/5

The worst 5 of 78 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	601[B]	73I	C22-N01	-10.33	1.30	1.44
2	C	601	73I	C22-N01	-10.13	1.30	1.44
2	B	601	73I	C22-N01	-9.82	1.31	1.44
2	D	601	73I	C22-N01	-9.69	1.31	1.44
2	A	601[A]	73I	C22-N01	-7.25	1.34	1.44

The worst 5 of 110 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	601[A]	73I	C07-C22-N01	13.95	140.97	120.16
2	B	601	73I	O03-S01-N01	12.37	122.70	107.56
2	A	601[B]	73I	C19-N01-C22	12.04	133.68	117.59
2	A	601[B]	73I	O04-S01-O03	-11.59	111.77	119.22
2	D	601	73I	O04-S01-N01	10.79	120.77	107.56

There are no chirality outliers.

5 of 52 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	601[A]	73I	C22-N01-S01-C11
2	A	601[A]	73I	C22-N01-S01-O04
2	A	601[A]	73I	C19-N01-S01-O04
2	A	601[B]	73I	F01-C01-C19-N01
2	A	601[B]	73I	C26-C11-S01-O03

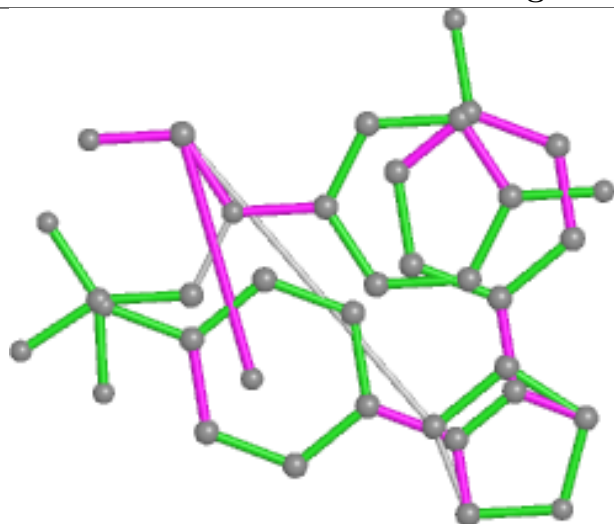
There are no ring outliers.

3 monomers are involved in 56 short contacts:

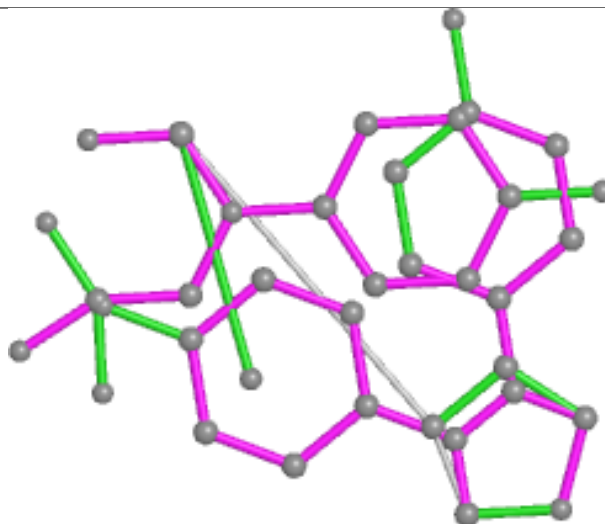
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	601[B]	73I	40	0
2	A	601[A]	73I	15	0
2	C	601	73I	1	0

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.

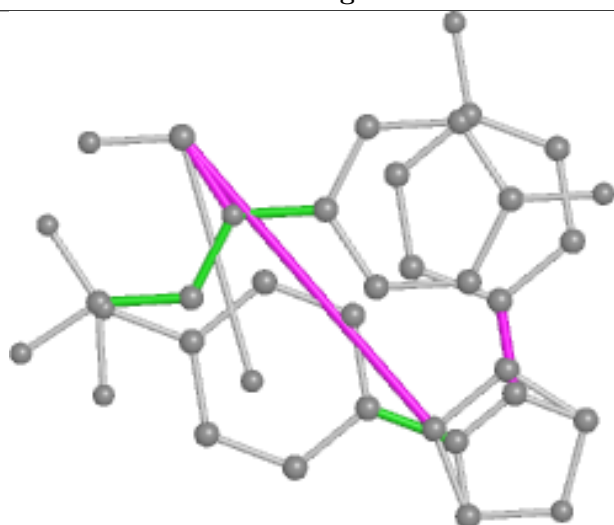
Ligand 73I B 601



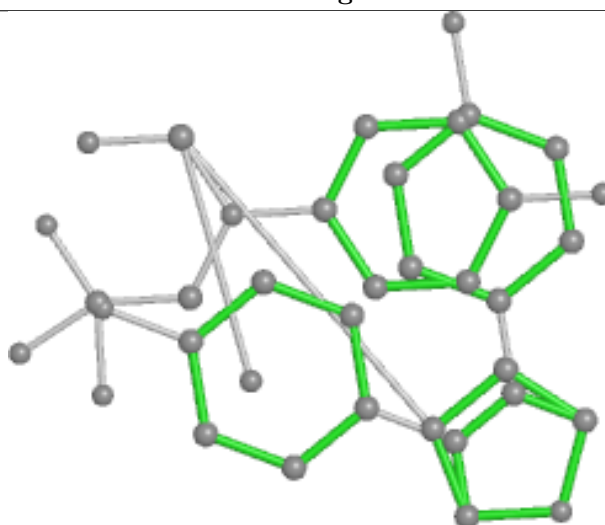
Bond lengths



Bond angles

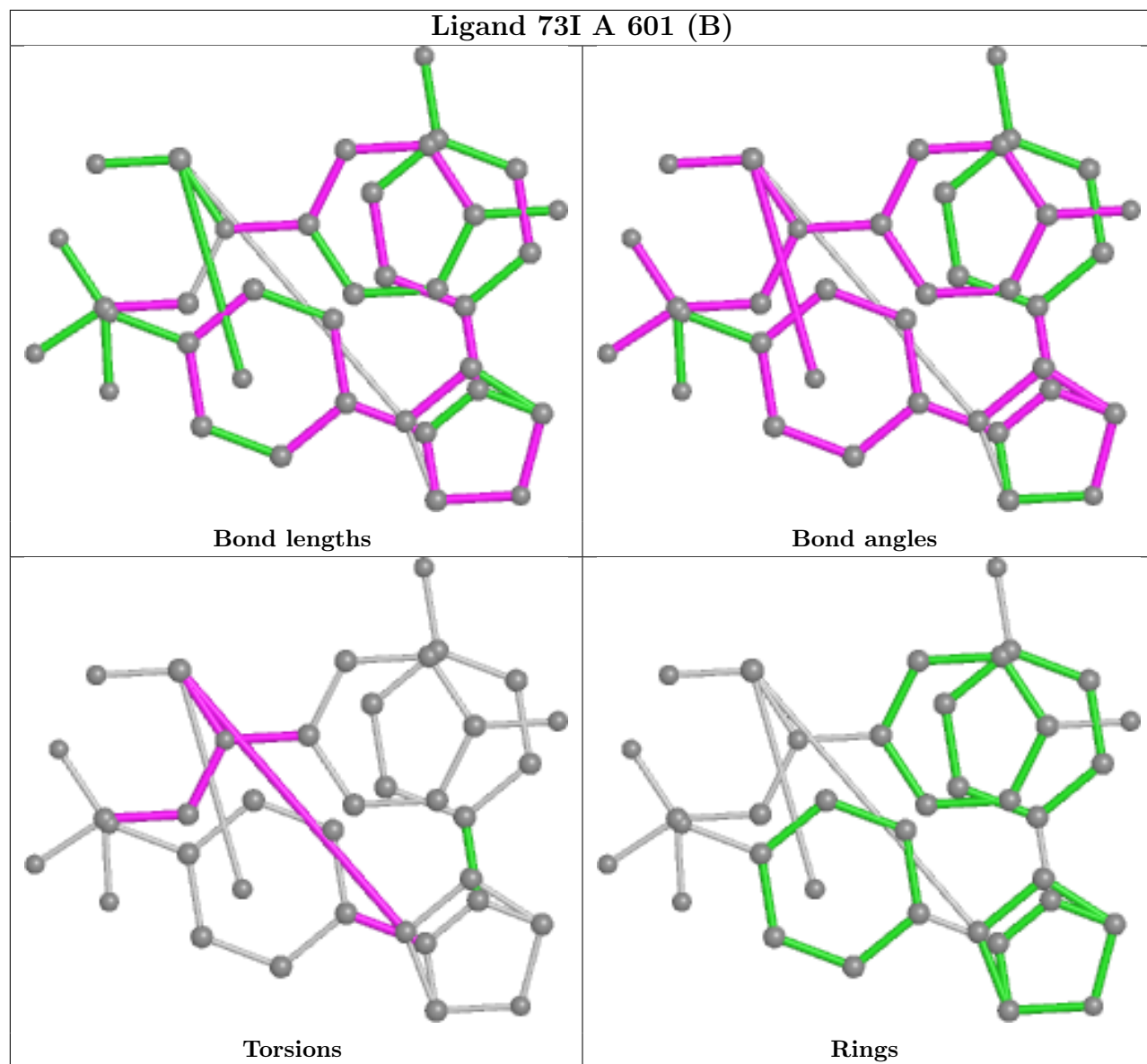


Torsions

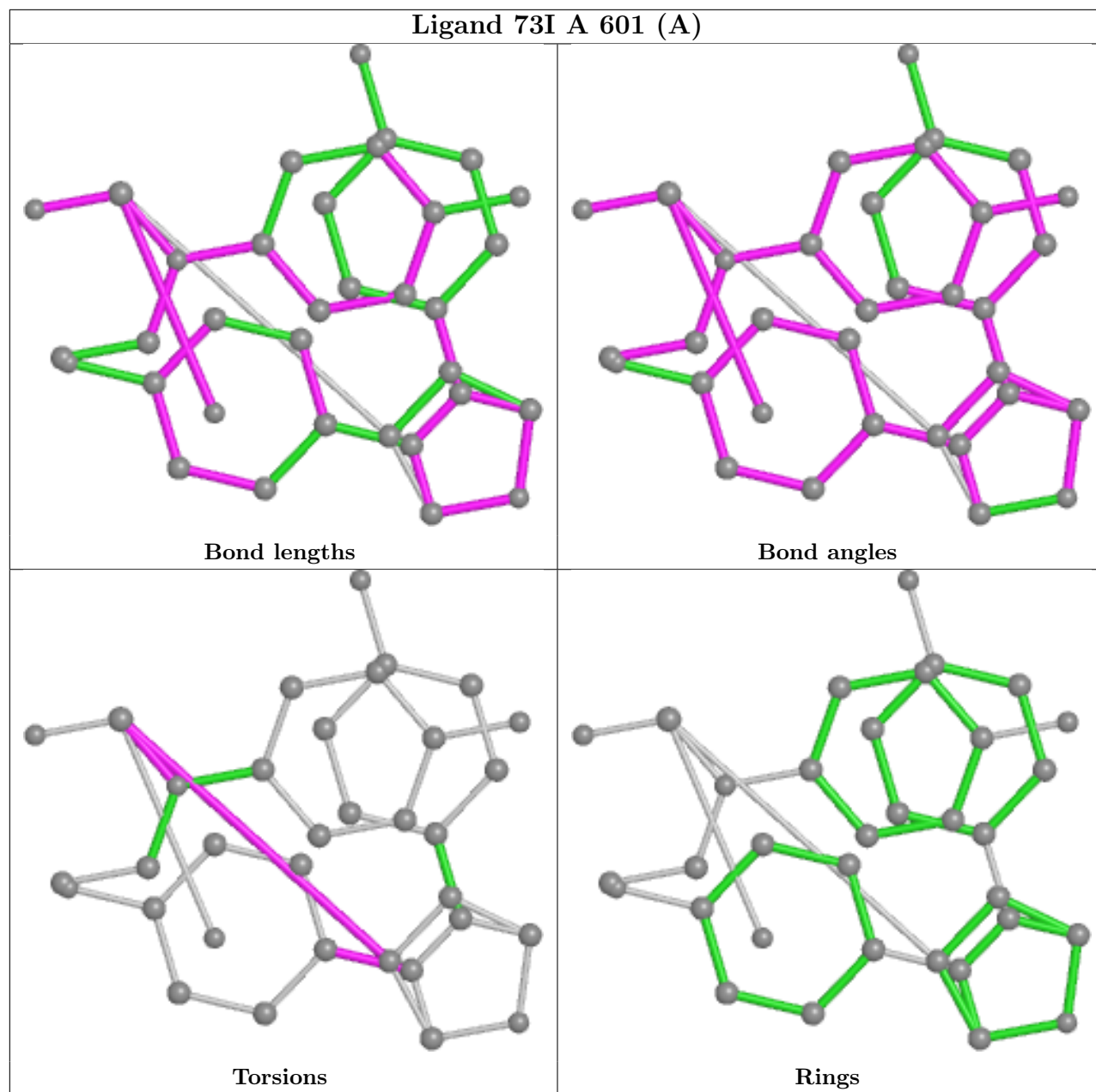


Rings

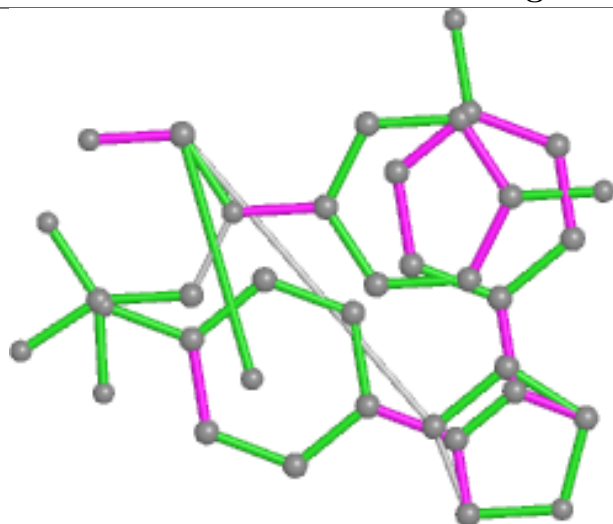
Ligand 73I A 601 (B)



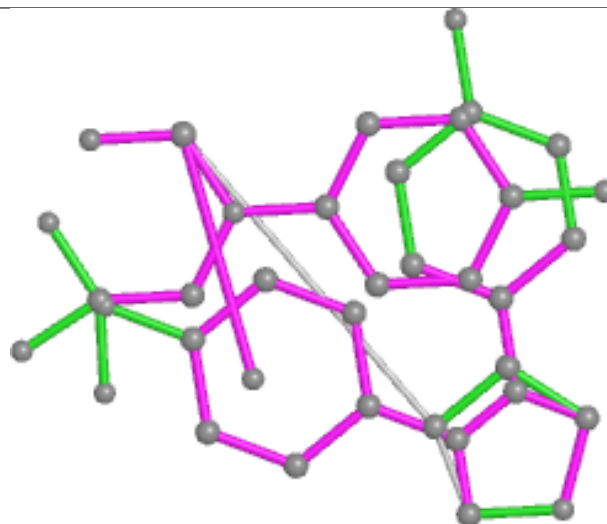
Ligand 73I A 601 (A)



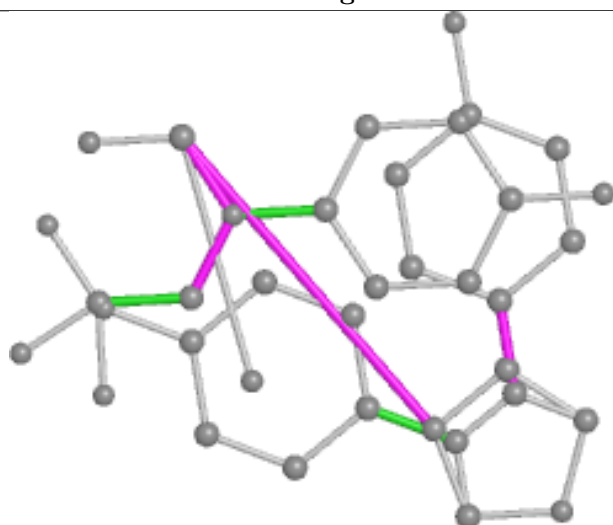
Ligand 73I D 601



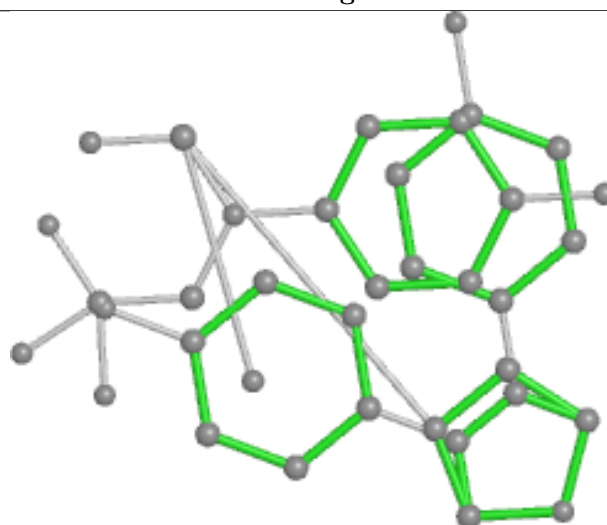
Bond lengths



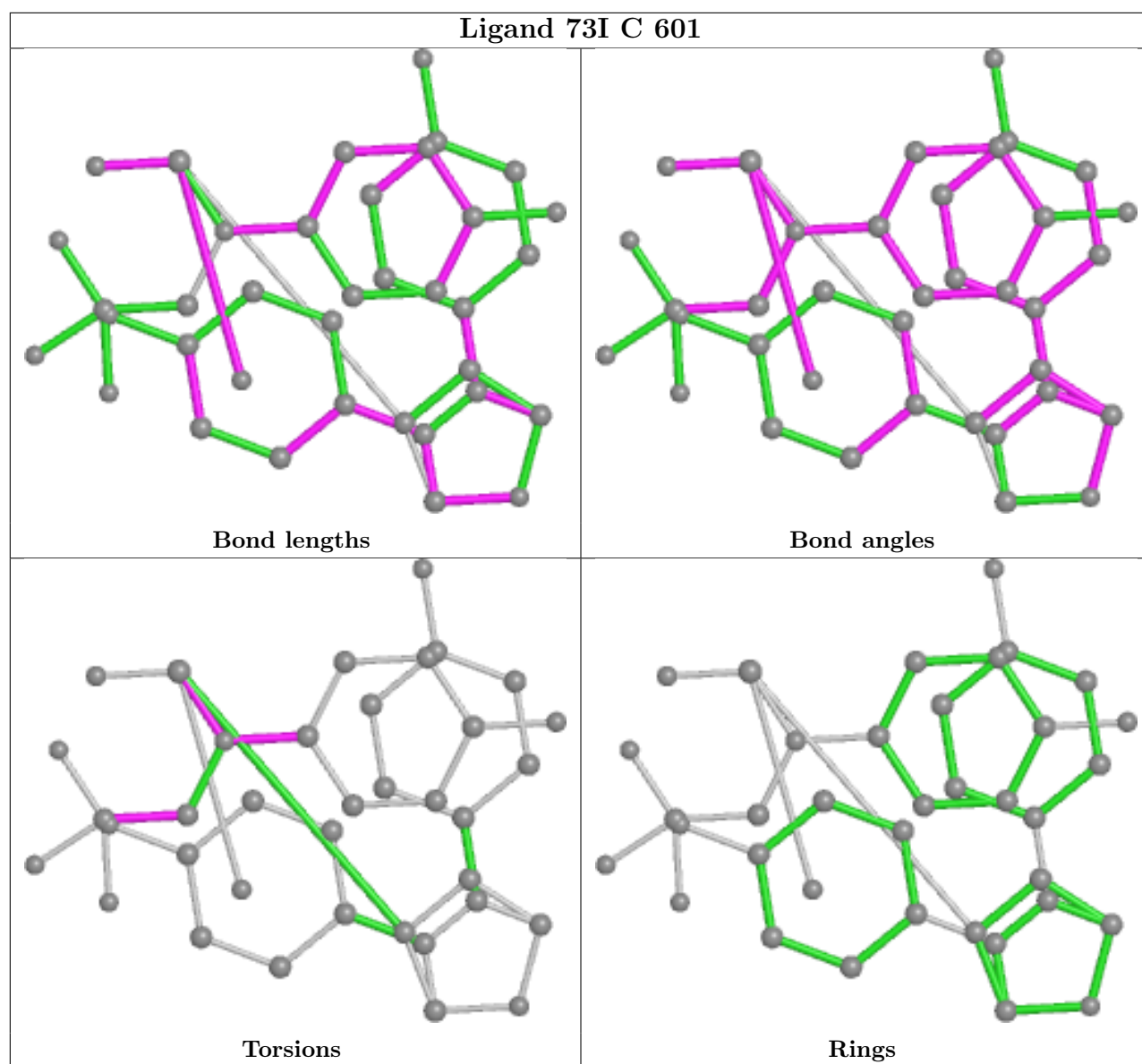
Bond angles



Torsions



Rings



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	A	242/257 (94%)	0.57	26 (10%) 6 5	12, 24, 57, 75	1 (0%)
1	B	227/257 (88%)	0.54	21 (9%) 8 8	13, 24, 63, 84	0
1	C	242/257 (94%)	0.64	24 (9%) 7 7	12, 25, 56, 92	0
1	D	237/257 (92%)	0.55	26 (10%) 5 5	13, 25, 63, 91	0
All	All	948/1028 (92%)	0.57	97 (10%) 6 6	12, 25, 60, 92	1 (0%)

The worst 5 of 97 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	337	PHE	8.8
1	B	305	SER	6.1
1	D	462	LEU	5.8
1	A	418	VAL	5.7
1	C	526	TYR	5.6

6.2 Non-standard residues in protein, DNA, RNA chains [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(Å ²)	Q<0.9
1	YCM	C	417	10/11	0.74	0.17	43,51,69,81	0
1	YCM	D	417	6/11	0.75	0.13	68,76,82,91	0
1	YCM	A	417	6/11	0.81	0.17	46,51,55,73	0
1	YCM	A	381	10/11	0.91	0.15	13,20,50,61	0
1	YCM	C	381	10/11	0.91	0.13	13,23,44,50	0
1	YCM	B	381	10/11	0.96	0.11	15,19,65,70	0
1	YCM	D	381	10/11	0.97	0.09	15,19,56,70	0

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

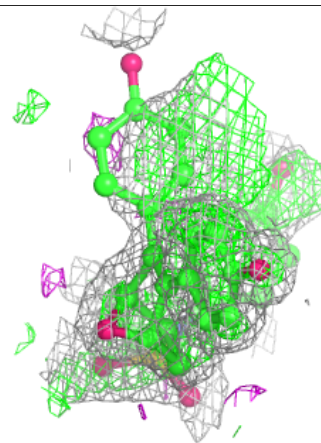
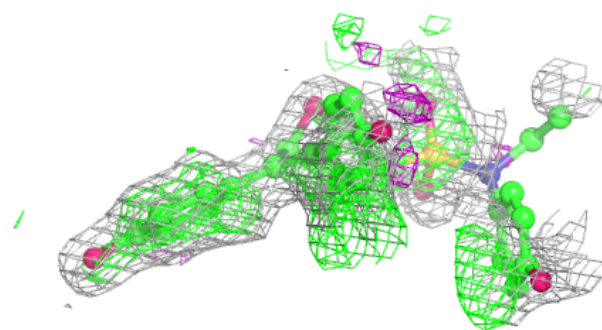
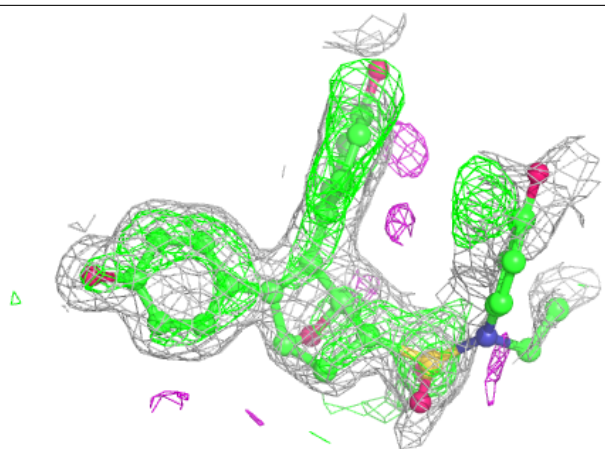
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	73I	A	601[A]	34/37	0.86	0.56	19,35,93,95	34
2	73I	A	601[B]	37/37	0.86	0.56	51,159,211,212	37
2	73I	B	601	37/37	0.88	0.12	22,35,56,59	0
2	73I	D	601	37/37	0.90	0.14	18,35,65,70	0
2	73I	C	601	37/37	0.93	0.11	15,25,61,72	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.

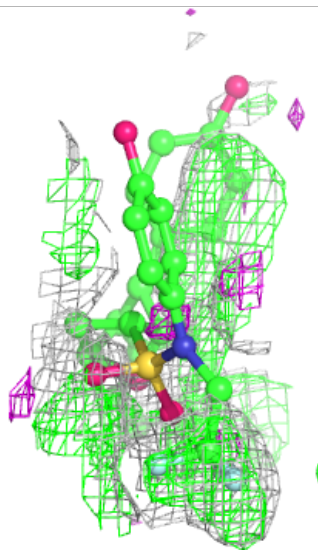
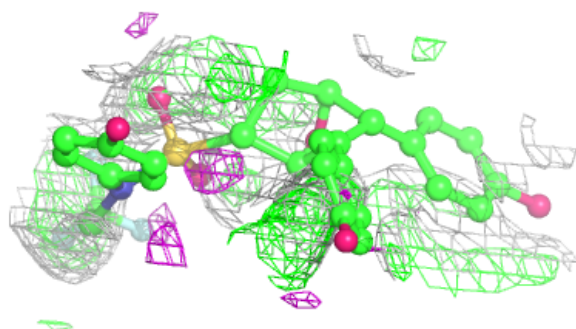
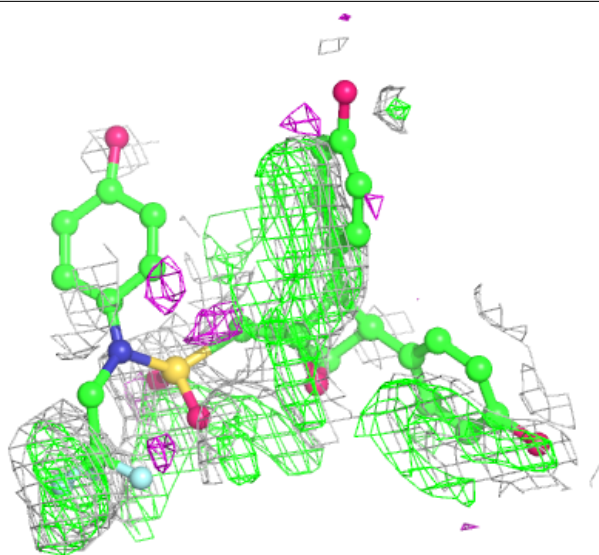
Electron density around 73I A 601 (A):

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



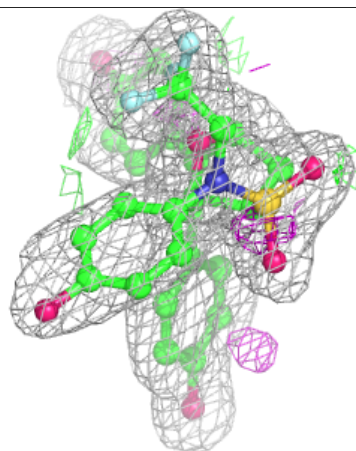
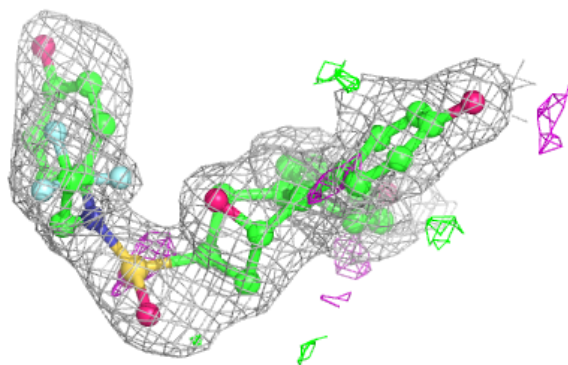
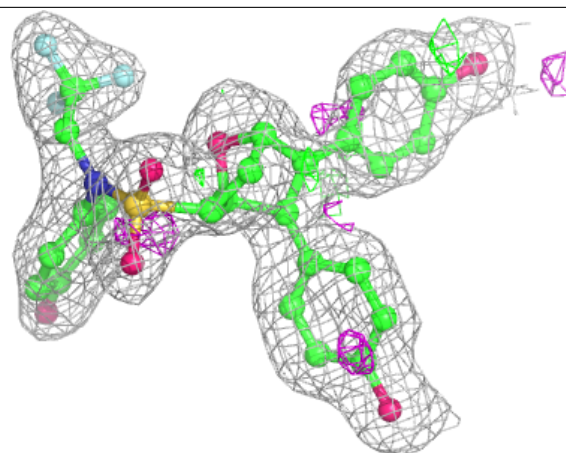
Electron density around 73I A 601 (B):

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



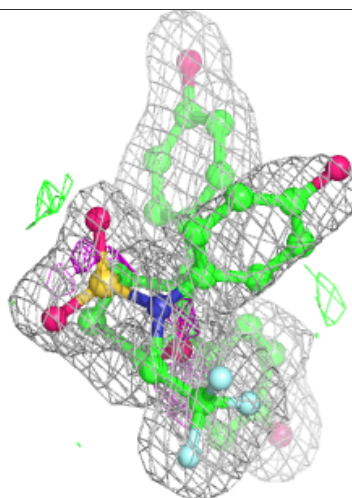
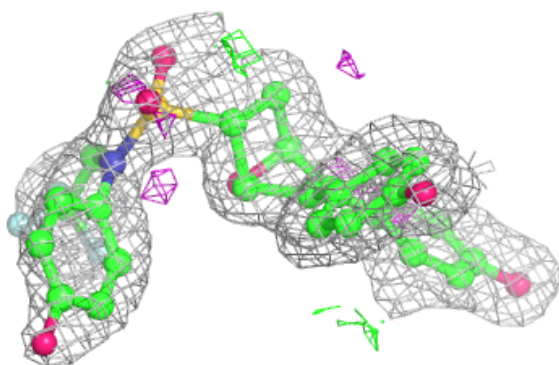
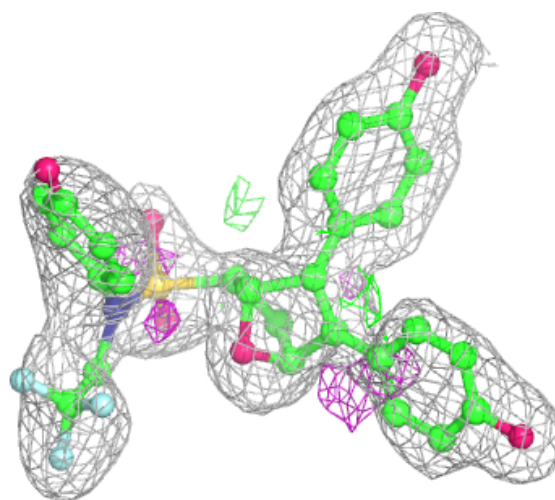
Electron density around 73I B 601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



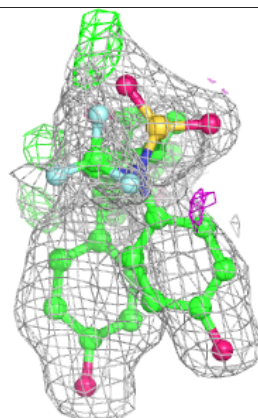
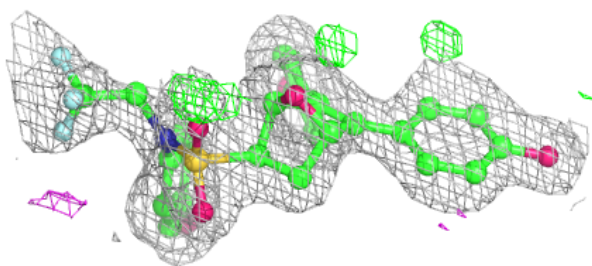
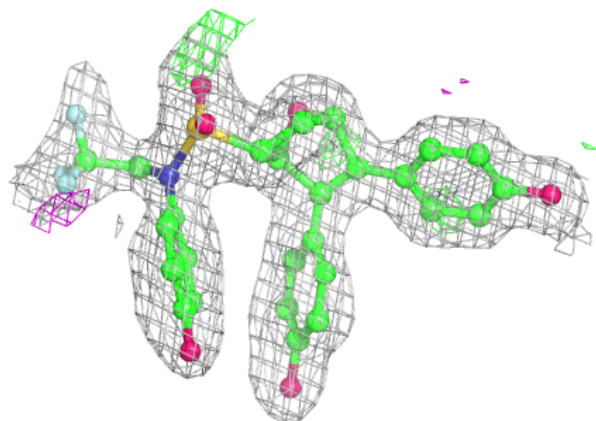
Electron density around 73I D 601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around 73I C 601:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.