



wwPDB X-ray Structure Validation Summary Report ⓘ

May 26, 2020 – 05:40 am BST

PDB ID : 6HSC
Title : Structure of Human Serum Albumin in complex with Aristolochic Acid at 1.9 Å resolution
Authors : Pomyalov, S.; Sidorenko, V.S.; Grollman, A.P.; Shoham, G.
Deposited on : 2018-09-29
Resolution : 1.90 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 : 2.11
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) : 2.11

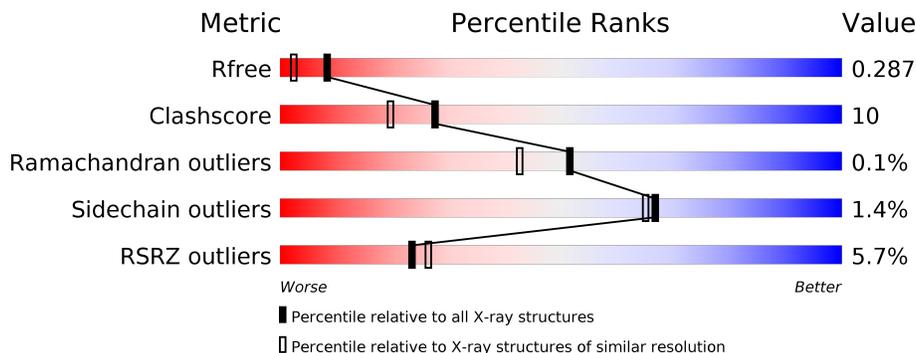
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 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	6207 (1.90-1.90)
Clashscore	141614	6847 (1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. 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	609	
1	B	609	

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	MYR	A	606	-	-	X	-
2	MYR	B	605	-	-	X	-

2 Entry composition [i](#)

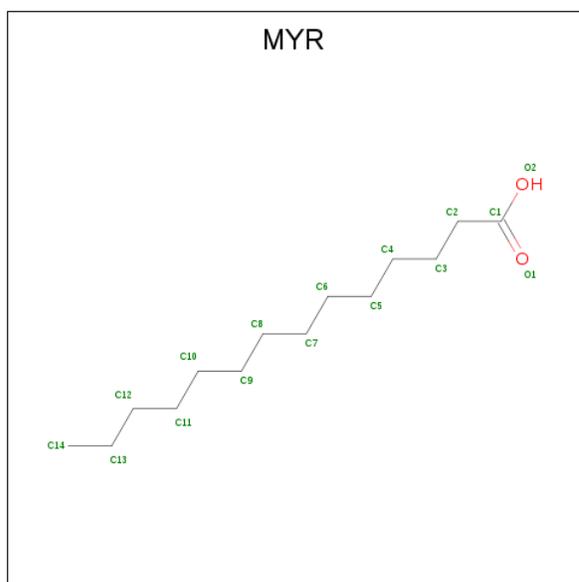
There are 5 unique types of molecules in this entry. The entry contains 9977 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Serum albumin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	582	Total 4579	C 2893	N 781	O 864	S 41	0	3	0
1	B	582	Total 4598	C 2903	N 783	O 871	S 41	0	2	0

- Molecule 2 is MYRISTIC ACID (three-letter code: MYR) (formula: C₁₄H₂₈O₂).



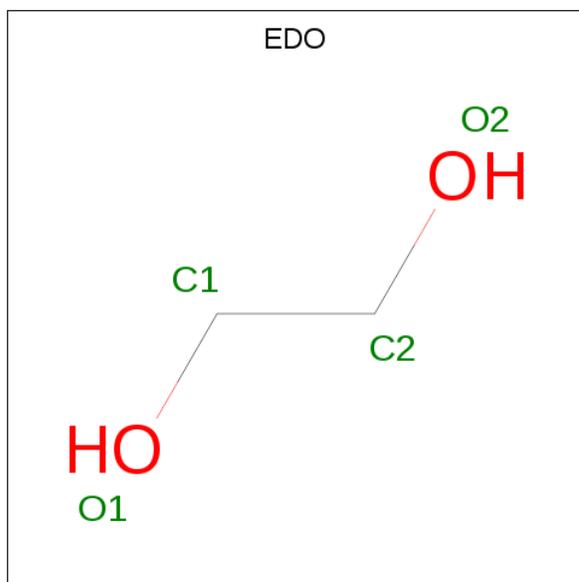
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total 16	C 14	O 2	0	0
2	A	1	Total 16	C 14	O 2	0	0
2	A	1	Total 16	C 14	O 2	0	0
2	A	1	Total 16	C 14	O 2	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			16	14	2		
2	A	1	Total	C	O	0	0
			16	14	2		
2	A	1	Total	C	O	0	0
			16	14	2		
2	B	1	Total	C	O	0	0
			16	14	2		
2	B	1	Total	C	O	0	0
			16	14	2		
2	B	1	Total	C	O	0	0
			16	14	2		
2	B	1	Total	C	O	0	0
			16	14	2		
2	B	1	Total	C	O	0	0
			16	14	2		

- Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



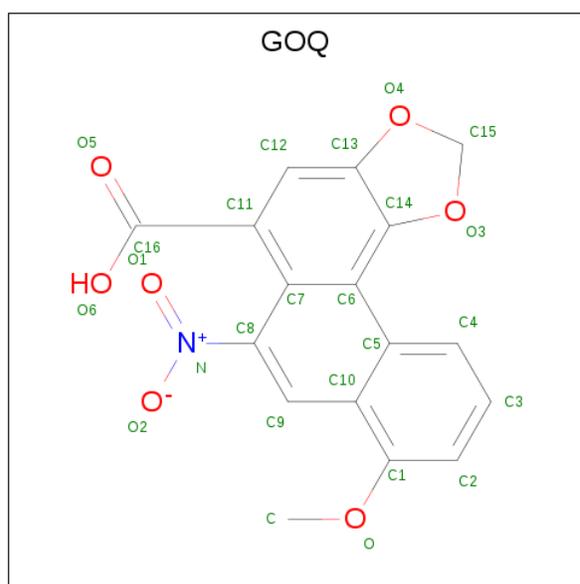
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	B	1	Total	C	O	0	0
			4	2	2		
3	B	1	Total	C	O	0	0
			4	2	2		
3	B	1	Total	C	O	0	0
			4	2	2		
3	B	1	Total	C	O	0	0
			4	2	2		
3	B	1	Total	C	O	0	0
			4	2	2		
3	B	1	Total	C	O	0	0
			4	2	2		

- Molecule 4 is 8-methoxy-6-nitro-naphtho[1,2-e][1,3]benzodioxole-5-carboxylic acid (three-letter code: GOQ) (formula: C₁₇H₁₁NO₇).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	B	1	Total	C	N	O	0	0
			25	17	1	7		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	183	Total	O	0	0
			183	183		

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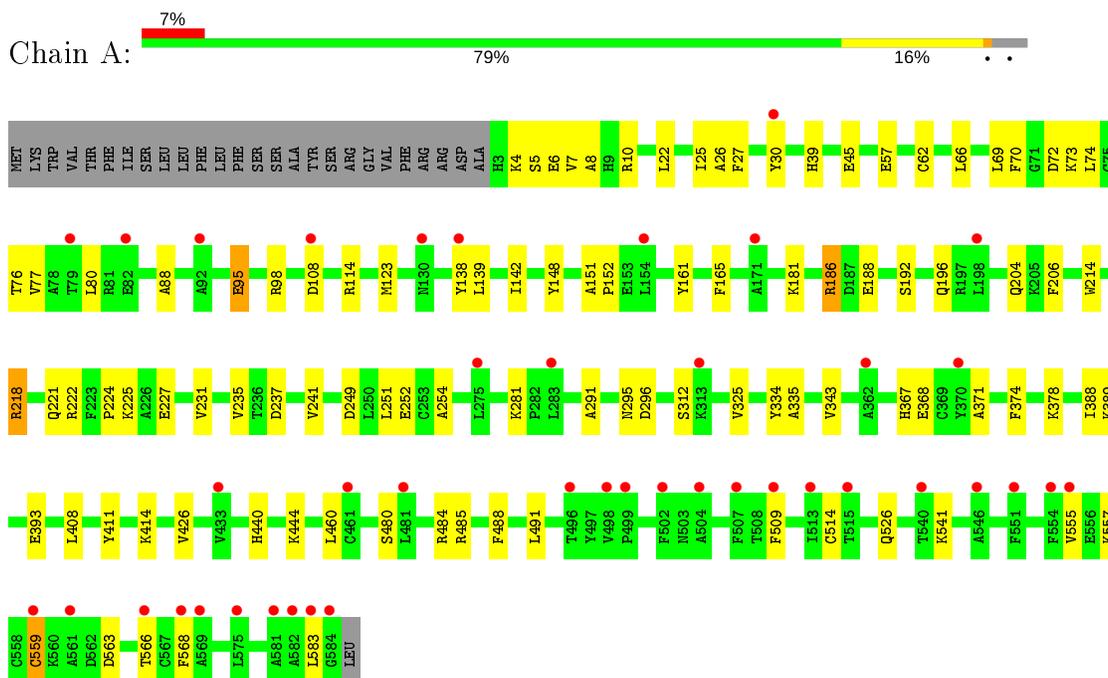
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	348	Total 348	O 348	0	0

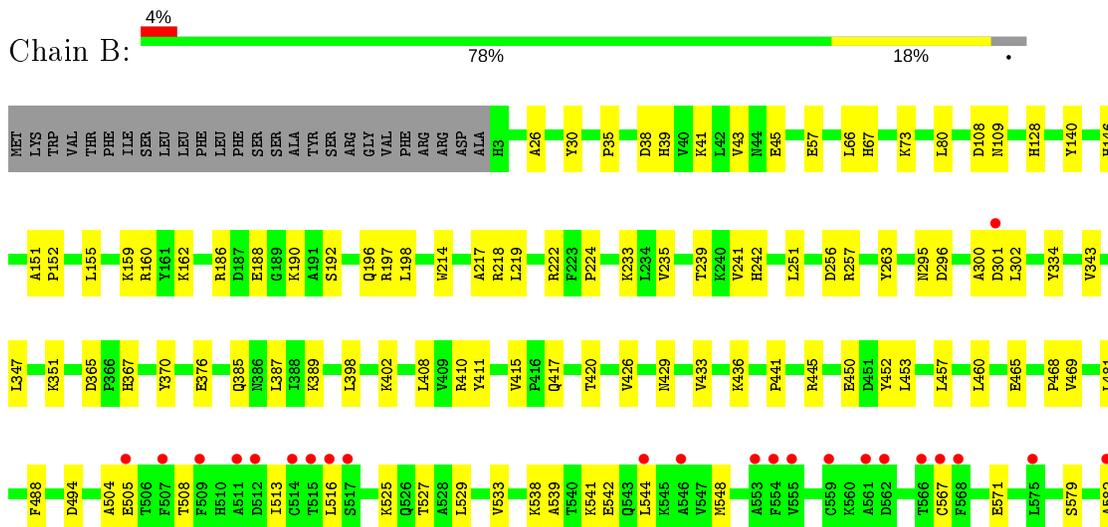
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Serum albumin



- Molecule 1: Serum albumin





4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	94.40Å 37.87Å 180.25Å 90.00° 105.12° 90.00°	Depositor
Resolution (Å)	47.20 – 1.90 47.20 – 1.90	Depositor EDS
% Data completeness (in resolution range)	98.8 (47.20-1.90) 98.8 (47.20-1.90)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.46 (at 1.90Å)	Xtrriage
Refinement program	PHENIX 1.14_3228	Depositor
R, R_{free}	0.238 , 0.286 0.238 , 0.287	Depositor DCC
R_{free} test set	4931 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	26.4	Xtrriage
Anisotropy	0.377	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 53.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.25$	Xtrriage
Estimated twinning fraction	0.019 for h,-k,-h-l	Xtrriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	9977	wwPDB-VP
Average B, all atoms (Å ²)	38.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 37.58 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 4.2001e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MYR, GOQ, EDO

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	0.37	0/4670	0.51	0/6311
1	B	0.53	0/4688	0.65	0/6332
All	All	0.45	0/9358	0.58	0/12643

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

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	4579	0	4450	96	0
1	B	4598	0	4482	80	0
2	A	112	0	186	25	0
2	B	96	0	162	30	0
3	A	8	0	12	0	0
3	B	28	0	42	5	0
4	B	25	0	0	1	0
5	A	183	0	0	8	0
5	B	348	0	0	7	0
All	All	9977	0	9334	186	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 10.

The worst 5 of 186 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:218:ARG:NH1	1:A:222:ARG:HH21	1.74	0.84
1:A:514:CYS:SG	1:A:559:CYS:HB3	2.21	0.80
1:A:514:CYS:SG	1:A:559:CYS:CB	2.73	0.76
1:B:66:LEU:HD21	2:B:602:MYR:H132	1.68	0.76
2:A:606:MYR:H21	2:A:606:MYR:H92	1.66	0.76

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	Percentiles	
1	A	583/609 (96%)	569 (98%)	12 (2%)	2 (0%)	41	31
1	B	582/609 (96%)	571 (98%)	11 (2%)	0	100	100
All	All	1165/1218 (96%)	1140 (98%)	23 (2%)	2 (0%)	51	38

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	95[A]	GLU
1	A	95[B]	GLU

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	492/533 (92%)	485 (99%)	7 (1%)	67	65
1	B	498/533 (93%)	491 (99%)	7 (1%)	67	65
All	All	990/1066 (93%)	976 (99%)	14 (1%)	67	65

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

Mol	Chain	Res	Type
1	A	559	CYS
1	B	140	TYR
1	B	351	LYS
1	A	557	LYS
1	B	334	TYR

Some 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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

23 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
3	EDO	B	609	-	3,3,3	0.37	0	2,2,2	0.55	0
3	EDO	B	612	-	3,3,3	0.55	0	2,2,2	0.12	0
3	EDO	B	613	-	3,3,3	0.43	0	2,2,2	0.47	0
2	MYR	A	601	-	12,15,15	0.26	0	11,15,15	1.03	0
2	MYR	A	606	-	12,15,15	0.23	0	11,15,15	0.90	0
2	MYR	B	601	-	12,15,15	0.30	0	11,15,15	0.84	0
2	MYR	A	604	-	12,15,15	0.31	0	11,15,15	0.93	0
3	EDO	B	611	-	3,3,3	0.49	0	2,2,2	0.39	0
2	MYR	A	602	-	12,15,15	0.35	0	11,15,15	0.76	0
2	MYR	B	602	-	12,15,15	0.30	0	11,15,15	1.12	0
3	EDO	A	609	-	3,3,3	0.46	0	2,2,2	0.45	0
2	MYR	B	604	-	12,15,15	0.19	0	11,15,15	1.45	2 (18%)
3	EDO	B	610	-	3,3,3	0.38	0	2,2,2	0.58	0
2	MYR	B	605	-	12,15,15	0.19	0	11,15,15	1.18	0
3	EDO	B	607	-	3,3,3	0.59	0	2,2,2	0.12	0
3	EDO	B	608	-	3,3,3	0.30	0	2,2,2	0.76	0
4	GOQ	B	614	-	25,28,28	2.87	9 (36%)	30,42,42	2.20	9 (30%)
2	MYR	A	605	-	12,15,15	0.39	0	11,15,15	0.73	0
2	MYR	B	603	-	12,15,15	0.31	0	11,15,15	1.22	0
2	MYR	B	606	-	12,15,15	0.29	0	11,15,15	0.98	0
2	MYR	A	603	-	12,15,15	0.27	0	11,15,15	1.00	0
3	EDO	A	608	-	3,3,3	0.50	0	2,2,2	0.18	0
2	MYR	A	607	-	12,15,15	0.27	0	11,15,15	0.99	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
3	EDO	B	609	-	-	1/1/1/1	-
3	EDO	B	612	-	-	1/1/1/1	-
3	EDO	B	613	-	-	1/1/1/1	-
2	MYR	A	601	-	-	6/11/13/13	-
2	MYR	A	606	-	-	9/11/13/13	-
2	MYR	B	601	-	-	7/11/13/13	-
2	MYR	A	604	-	-	7/11/13/13	-
3	EDO	B	611	-	-	0/1/1/1	-
2	MYR	A	602	-	-	4/11/13/13	-
2	MYR	B	602	-	-	4/11/13/13	-
3	EDO	A	609	-	-	0/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	MYR	B	604	-	-	9/11/13/13	-
3	EDO	B	610	-	-	1/1/1/1	-
2	MYR	B	605	-	-	5/11/13/13	-
3	EDO	B	607	-	-	1/1/1/1	-
3	EDO	B	608	-	-	0/1/1/1	-
4	GOQ	B	614	-	-	3/4/16/16	0/4/4/4
2	MYR	A	605	-	-	5/11/13/13	-
2	MYR	B	603	-	-	8/11/13/13	-
2	MYR	B	606	-	-	6/11/13/13	-
2	MYR	A	603	-	-	6/11/13/13	-
3	EDO	A	608	-	-	0/1/1/1	-
2	MYR	A	607	-	-	8/11/13/13	-

The worst 5 of 9 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	614	GOQ	O1-N	9.80	1.39	1.22
4	B	614	GOQ	C11-C7	5.29	1.52	1.43
4	B	614	GOQ	C8-C7	4.88	1.50	1.43
4	B	614	GOQ	C6-C7	3.66	1.49	1.42
4	B	614	GOQ	C8-N	-2.91	1.40	1.45

The worst 5 of 11 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	614	GOQ	C-O-C1	6.11	126.29	117.75
4	B	614	GOQ	O-C1-C10	3.91	118.28	114.46
4	B	614	GOQ	C10-C5-C6	-3.79	115.45	119.48
4	B	614	GOQ	C8-C7-C6	-3.68	116.18	118.69
4	B	614	GOQ	O1-N-C8	-3.51	113.03	119.03

There are no chirality outliers.

5 of 92 torsion outliers are listed below:

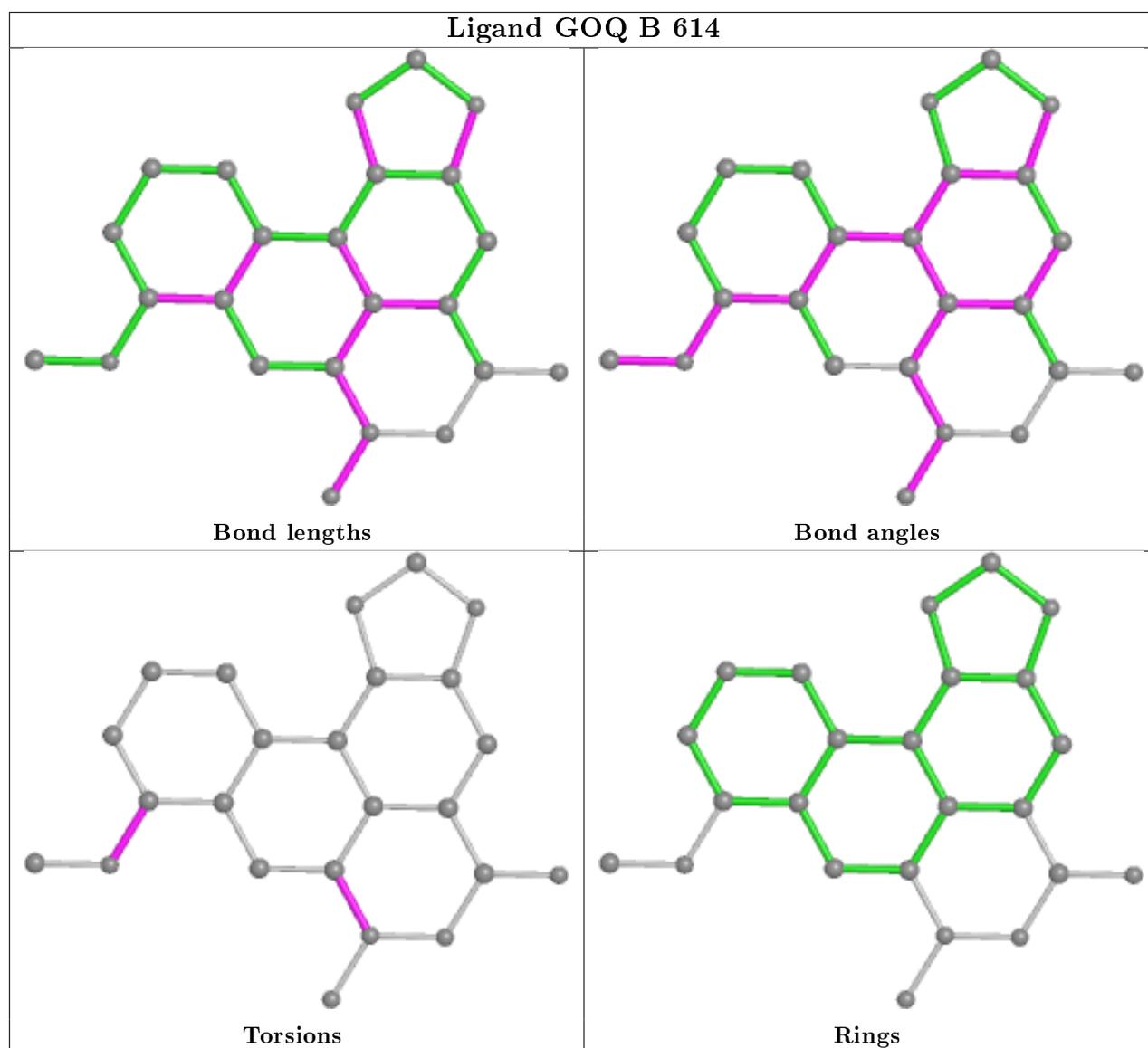
Mol	Chain	Res	Type	Atoms
2	A	606	MYR	C1-C2-C3-C4
2	A	605	MYR	C1-C2-C3-C4
2	B	603	MYR	C1-C2-C3-C4
2	A	607	MYR	C1-C2-C3-C4
4	B	614	GOQ	C2-C1-O-C

There are no ring outliers.

17 monomers are involved in 61 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	609	EDO	1	0
3	B	612	EDO	1	0
2	A	601	MYR	2	0
2	A	606	MYR	10	0
2	B	601	MYR	3	0
2	A	602	MYR	4	0
2	B	602	MYR	4	0
2	B	604	MYR	8	0
2	B	605	MYR	9	0
3	B	607	EDO	1	0
3	B	608	EDO	2	0
4	B	614	GOQ	1	0
2	A	605	MYR	2	0
2	B	603	MYR	1	0
2	B	606	MYR	6	0
2	A	603	MYR	6	0
2	A	607	MYR	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.



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	582/609 (95%)	0.70	42 (7%) 15 17	32, 47, 63, 86	0
1	B	582/609 (95%)	0.43	24 (4%) 37 40	8, 26, 54, 76	0
All	All	1164/1218 (95%)	0.56	66 (5%) 23 26	8, 40, 60, 86	0

The worst 5 of 66 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	546	ALA	4.1
1	A	502	PHE	4.1
1	B	555	VAL	4.0
1	B	509	PHE	4.0
1	A	566	THR	3.9

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

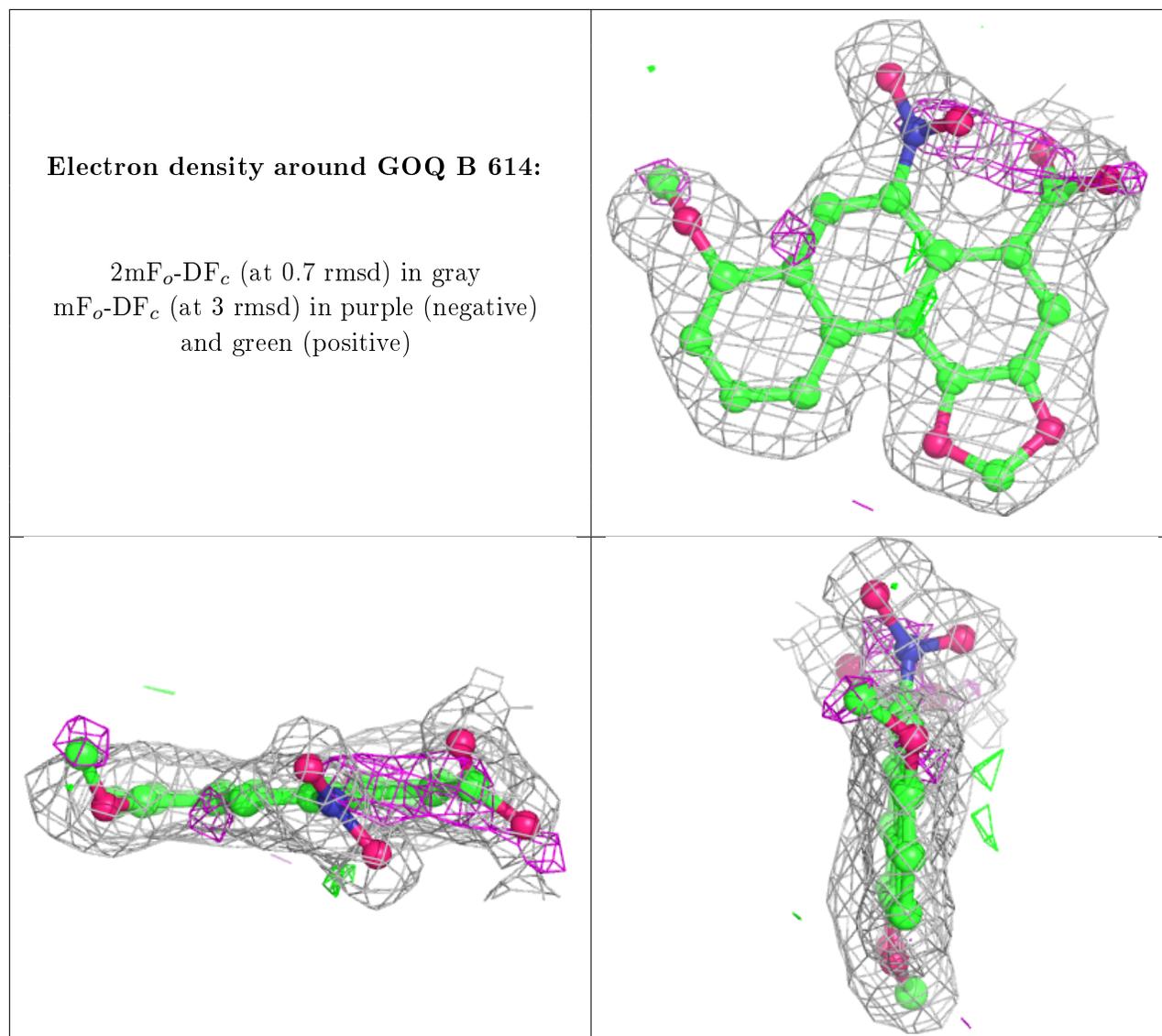
There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 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(\AA^2)	Q<0.9
2	MYR	A	607	16/16	0.69	0.23	45,52,60,61	0
2	MYR	A	604	16/16	0.72	0.24	45,54,57,58	0
2	MYR	A	605	16/16	0.74	0.32	44,46,52,53	0
2	MYR	B	601	16/16	0.75	0.15	38,43,48,48	0
2	MYR	B	605	16/16	0.76	0.20	25,35,47,50	0
2	MYR	B	606	16/16	0.78	0.22	23,28,41,46	0
2	MYR	A	606	16/16	0.79	0.22	45,49,52,52	0
3	EDO	A	608	4/4	0.81	0.31	43,44,45,48	0
3	EDO	A	609	4/4	0.83	0.15	50,52,53,55	0
2	MYR	A	602	16/16	0.83	0.18	33,45,49,50	0
3	EDO	B	613	4/4	0.85	0.17	34,40,44,44	0
2	MYR	B	603	16/16	0.86	0.14	21,29,35,36	0
2	MYR	B	602	16/16	0.87	0.15	18,22,30,36	0
4	GOQ	B	614	25/25	0.88	0.14	20,25,31,35	0
3	EDO	B	610	4/4	0.89	0.15	18,24,25,33	0
3	EDO	B	608	4/4	0.89	0.20	31,40,41,44	0
2	MYR	A	603	16/16	0.91	0.13	37,44,49,49	0
3	EDO	B	611	4/4	0.91	0.12	33,35,40,44	0
2	MYR	A	601	16/16	0.91	0.15	37,41,44,45	0
2	MYR	B	604	16/16	0.92	0.20	14,25,34,36	0
3	EDO	B	609	4/4	0.93	0.15	27,30,30,32	0
3	EDO	B	612	4/4	0.93	0.20	22,28,30,37	0
3	EDO	B	607	4/4	0.94	0.13	19,23,25,27	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.