

wwPDB X-ray Structure Validation Summary Report (i)

Sep 10, 2023 – 10:01 PM EDT

PDB ID : 4J2V

Title : Crystal Structure of Equine Serum Albumin in complex with 3,5-diiodosalicylic

acid

Authors : Sekula, B.; Bujacz, A.; Zielinski, K.; Bujacz, G.

Deposited on : 2013-02-05

Resolution : 2.12 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

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

Xtriage (Phenix) : 1.13

EDS : 2.35.1

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)

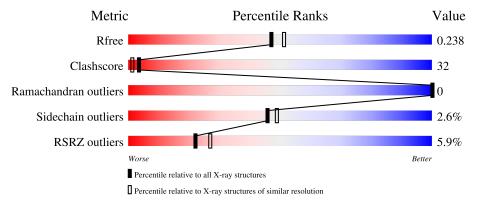
Validation Pipeline (wwPDB-VP) : 2.35.1

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 2.12 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.



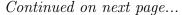
Metric	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{A})}) \end{array}$
R_{free}	130704	6241 (2.14-2.10)
Clashscore	141614	6778 (2.14-2.10)
Ramachandran outliers	138981	6705 (2.14-2.10)
Sidechain outliers	138945	6706 (2.14-2.10)
RSRZ outliers	127900	6112 (2.14-2.10)

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	Qualit	Quality of chain		
		× 00	6%			
1	A	583	48%	50%	•	

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	DIU	A	601	-	-	X	-





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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	DIU	A	602	-	-	X	-
2	DIU	A	603	-	-	X	-
2	DIU	A	604	-	-	X	-
3	MLI	A	605	-	-	X	-
3	MLI	A	608	-	-	X	-
3	MLI	A	611	-	-	X	-
4	FMT	A	612	-	-	X	-
4	FMT	A	618	-	-	X	-
4	FMT	A	619	-	-	X	-



2 Entry composition (i)

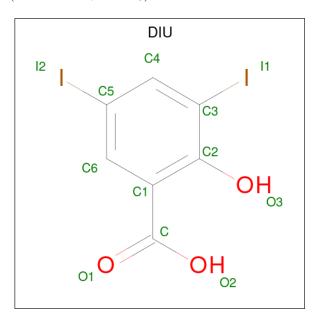
There are 6 unique types of molecules in this entry. The entry contains 4986 atoms, of which 0 are hydrogens and 0 are deuteriums.

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		
1	Λ	581	Total	С	N	О	S	0	7	0
1	A	301	4630	2928	780	887	35		1	

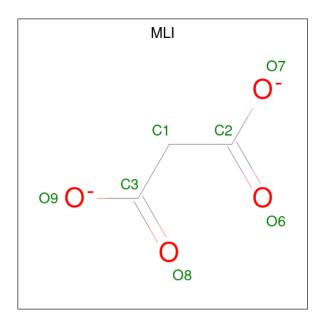
• Molecule 2 is 2-HYDROXY-3,5-DIIODO-BENZOIC ACID (three-letter code: DIU) (formula: C₇H₄I₂O₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C I O 12 7 2 3	0	0
2	A	1	Total C I O 12 7 2 3	0	0
2	A	1	Total C I O 12 7 2 3	0	0
2	A	1	Total C I O 12 7 2 3	0	0

• Molecule 3 is MALONATE ION (three-letter code: MLI) (formula: $C_3H_2O_4$).

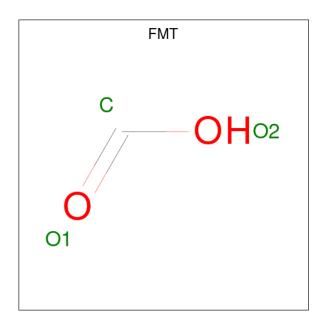




Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 7 3 4	0	0
3	A	1	Total C O 7 3 4	0	0
3	A	1	Total C O 7 3 4	0	0
3	A	1	Total C O 7 3 4	0	0
3	A	1	Total C O 7 3 4	0	0
3	A	1	Total C O 7 3 4	0	0
3	A	1	Total C O 7 3 4	0	0

 \bullet Molecule 4 is FORMIC ACID (three-letter code: FMT) (formula: $\mathrm{CH_2O_2}).$

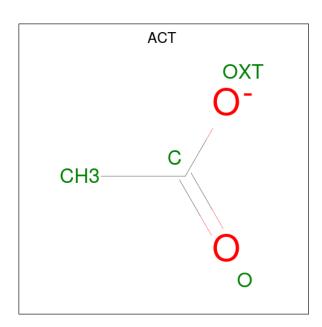




Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 3 1 2	0	0
4	A	1	Total C O 3 1 2	0	0
4	A	1	Total C O 3 1 2	0	0
4	A	1	Total C O 3 1 2	0	0
4	A	1	Total C O 3 1 2	0	0
4	A	1	Total C O 3 1 2	0	0
4	A	1	Total C O 3 1 2	0	0
4	A	1	Total C O 3 1 2	0	0

 \bullet Molecule 5 is ACETATE ION (three-letter code: ACT) (formula: $C_2H_3O_2).$





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

• Molecule 6 is water.

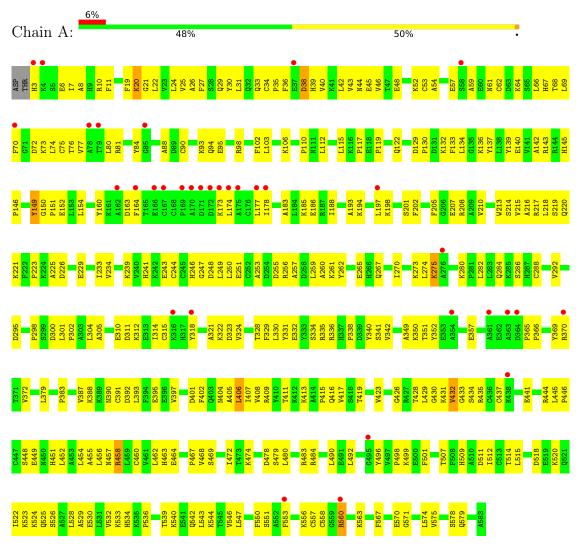
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	231	Total O 231 231	0	0



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.







4 Data and refinement statistics (i)

Property	Value
Space group	P 61
Cell constants	88.88Å 88.88Å 134.34Å
a, b, c, α , β , γ	90.00° 90.00° 120.00°
Resolution (Å)	33.39 - 2.12 $33.39 - 2.12$
% Data completeness	100.0 (33.39-2.12)
(in resolution range)	100.0 (33.39-2.12)
R_{merge}	0.08
R_{sym}	(Not available)
$< I/\sigma(I) > 1$	2.49 (at 2.12Å)
Refinement program	PHENIX (phenix.refine: 1.8.1_1168), REFMAC (rigid body refinement
D D.	0.181 , 0.238
R, R_{free}	0.186 , 0.238
R_{free} test set	1076 reflections (3.16%)
Wilson B-factor (Å ²)	37.7
Anisotropy	0.165
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	$0.41 \; , \; 33.3$
L-test for twinning ²	$< L > = 0.50, < L^2> = 0.33$
Estimated twinning fraction	0.054 for h,-h-k,-l
F_o, F_c correlation	0.96
Total number of atoms	4986
Average B, all atoms $(Å^2)$	38.0

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.54% 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: FMT, DIU, MLI, ACT

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).

Mal	Mol Chain		nd lengths	Bond angles		
Mol Chain		RMSZ $ \# Z > 5$		RMSZ	# Z > 5	
1	A	0.96	3/4752 (0.1%)	0.87	2/6409 (0.0%)	

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(\text{\AA})$
1	A	391	CYS	CB-SG	-5.93	1.72	1.81
1	A	288	CYS	CB-SG	-5.63	1.72	1.81
1	A	75	CYS	CB-SG	-5.06	1.73	1.81

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	A	406	LEU	CA-CB-CG	-5.06	103.67	115.30
1	A	458	ARG	NE-CZ-NH2	-5.05	117.77	120.30

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	4630	0	4562	296	0
2	A	48	0	8	26	0
3	A	49	0	14	17	0



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Mol	Chain	Non-H	H(model)	$\mathbf{H}(\mathbf{added})$	Clashes	Symm-Clashes
4	A	24	0	8	5	0
5	A	4	0	3	0	0
6	A	231	0	0	12	0
All	All	4986	0	4595	299	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 32.

The worst 5 of 299 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:A:553:PHE:CE1	1:A:570:GLU:HB2	1.63	1.32
1:A:540:LYS:HB2	2:A:604:DIU:I2	2.07	1.25
1:A:321:ALA:HB1	1:A:324:VAL:CG1	1.73	1.18
1:A:321:ALA:HB1	1:A:324:VAL:HG11	1.44	0.99
1:A:553:PHE:HE1	1:A:570:GLU:HB2	1.19	0.95

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	avoured Allowed		Percentiles
1	A	586/583 (100%)	568 (97%)	18 (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	513/508 (101%)	499 (97%)	14 (3%)	44 47	

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

Mol	Chain	Res	Type
1	A	395	GLU
1	A	432	VAL
1	A	560	ARG
1	A	467	PRO
1	A	518	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	18	HIS
1	A	579	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)

20 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	Во	nd leng	ths	В	ond ang	eles
WIOI	туре	Chain	rtes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	MLI	A	611	-	6,6,6	1.18	0	7,7,7	1.15	0
3	MLI	A	610	-	6,6,6	1.73	1 (16%)	7,7,7	1.30	0
4	FMT	A	617	-	2,2,2	0.57	0	1,1,1	0.55	0
3	MLI	A	609	-	6,6,6	1.57	1 (16%)	7,7,7	1.14	1 (14%)
4	FMT	A	613	-	2,2,2	0.89	0	1,1,1	0.44	0
2	DIU	A	602	-	12,12,12	1.90	5 (41%)	17,17,17	1.60	3 (17%)
2	DIU	A	601	-	12,12,12	1.72	3 (25%)	17,17,17	1.91	3 (17%)
4	FMT	A	615	-	2,2,2	0.60	0	1,1,1	0.81	0
5	ACT	A	620	-	3,3,3	0.81	0	3,3,3	1.39	0
4	FMT	A	619	-	2,2,2	0.90	0	1,1,1	0.35	0
4	FMT	A	612	-	2,2,2	0.50	0	1,1,1	1.01	0
3	MLI	A	608	-	6,6,6	1.29	0	7,7,7	1.35	0
2	DIU	A	604	-	12,12,12	1.40	3 (25%)	17,17,17	1.69	3 (17%)
3	MLI	A	607	-	6,6,6	1.34	0	7,7,7	1.18	1 (14%)
3	MLI	A	605	-	6,6,6	1.21	0	7,7,7	1.43	1 (14%)
3	MLI	A	606	-	6,6,6	1.41	0	7,7,7	1.22	0
4	FMT	A	614	-	2,2,2	0.70	0	1,1,1	0.64	0
4	FMT	A	616	-	2,2,2	0.83	0	1,1,1	0.45	0
4	FMT	A	618	-	2,2,2	0.63	0	1,1,1	0.73	0
2	DIU	A	603	-	12,12,12	1.20	2 (16%)	17,17,17	1.48	2 (11%)

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	MLI	A	609	-	-	1/4/4/4	-
2	DIU	A	602	_	-	0/4/4/4	0/1/1/1
2	DIU	A	601	-	-	2/4/4/4	0/1/1/1
3	MLI	A	606	-	-	2/4/4/4	-
3	MLI	A	608	-	-	0/4/4/4	-
2	DIU	A	604	-	-	2/4/4/4	0/1/1/1
2	DIU	A	603	-	-	0/4/4/4	0/1/1/1
3	MLI	A	607	-	-	4/4/4/4	-
3	MLI	A	611	-	-	1/4/4/4	-



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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	MLI	A	610	-	-	0/4/4/4	-
3	MLI	A	605	-	-	0/4/4/4	-

The worst 5 of 15 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	$Ideal(\AA)$
2	A	601	DIU	C1-C2	3.72	1.47	1.41
2	A	601	DIU	C2-C3	3.04	1.47	1.40
2	A	604	DIU	О2-С	-3.00	1.21	1.30
2	A	602	DIU	C2-C3	2.97	1.46	1.40
2	A	602	DIU	C1-C2	2.85	1.46	1.41

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

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	A	601	DIU	C4-C5-I2	-5.49	112.39	119.37
2	A	604	DIU	C2-C1-C	4.84	125.17	119.83
2	A	603	DIU	C3-C4-C5	3.90	123.18	119.45
2	A	601	DIU	C6-C5-I2	3.42	123.72	119.37
2	A	602	DIU	C2-C3-I1	3.39	124.64	119.42

There are no chirality outliers.

5 of 12 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	601	DIU	O2-C-C1-C2
2	A	601	DIU	O1-C-C1-C2
3	A	606	MLI	C3-C1-C2-O6
2	A	604	DIU	O1-C-C1-C2
2	A	604	DIU	O2-C-C1-C2

There are no ring outliers.

14 monomers are involved in 47 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	611	MLI	3	0
3	A	609	MLI	1	0
2	A	602	DIU	4	0
2	A	601	DIU	4	0
4	A	619	FMT	2	0
4	A	612	FMT	2	0

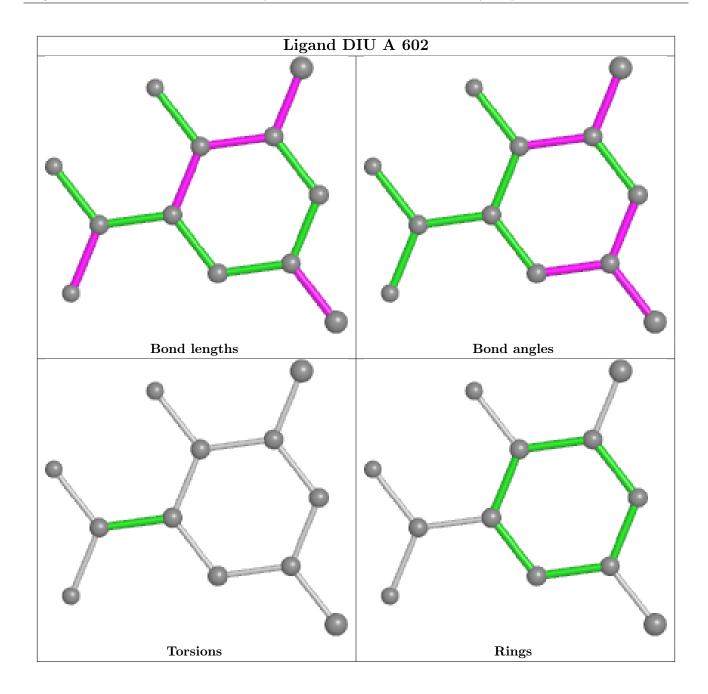


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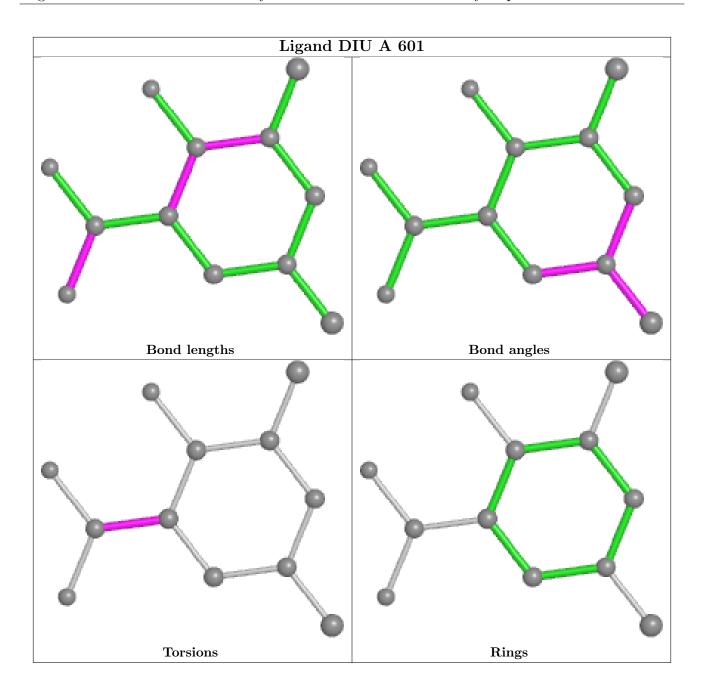
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	608	MLI	4	0
2	A	604	DIU	14	0
3	A	607	MLI	1	0
3	A	605	MLI	7	0
3	A	606	MLI	1	0
4	A	614	FMT	1	0
4	A	618	FMT	2	0
2	A	603	DIU	4	0

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.

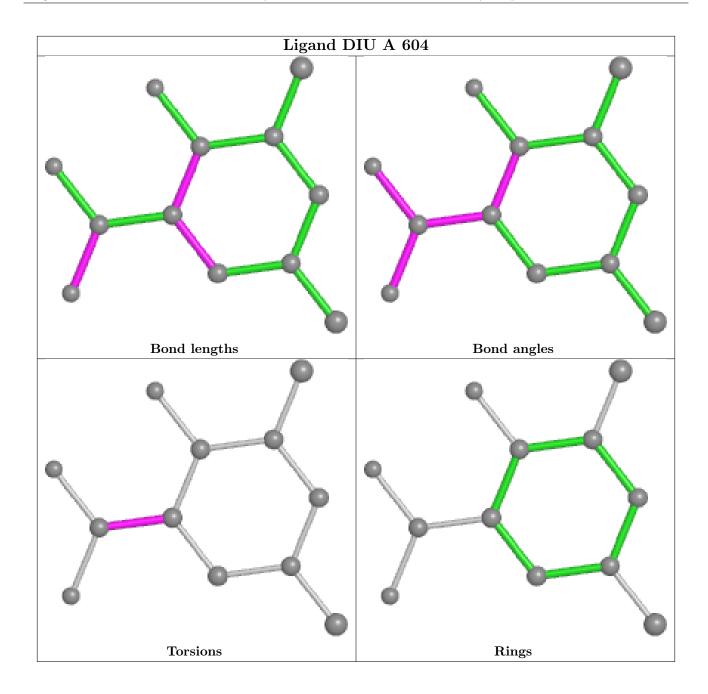




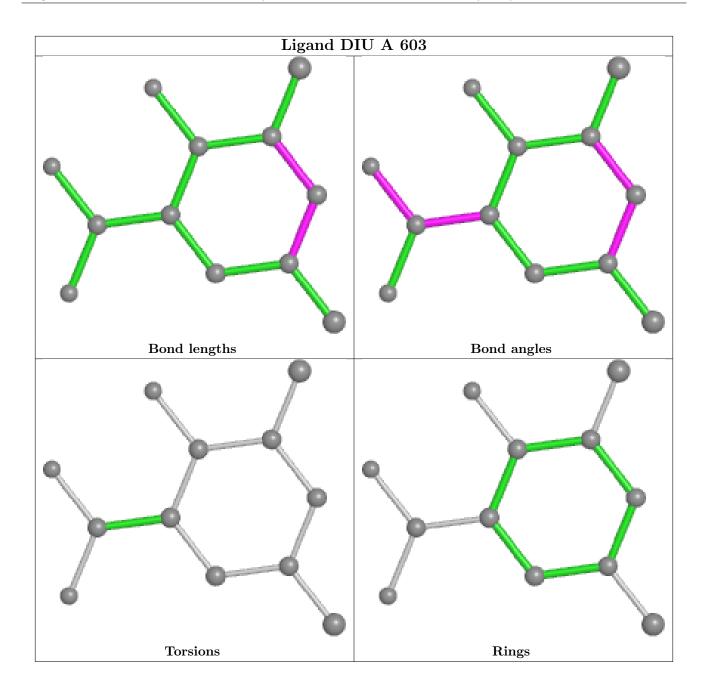












5.7 Other polymers (i)

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	<RSRZ $>$	# RSRZ > 2		$OWAB(Å^2)$	Q<0.9
1	A	581/583 (99%)	0.36	34 (5%) 22	27	16, 36, 62, 102	0

The worst 5 of 34 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	174	LEU	9.3
1	A	170	ALA	8.9
1	A	3	HIS	7.1
1	A	363	ALA	6.5
1	A	171	ASP	5.3

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
4	FMT	A	619	3/3	0.67	0.26	54,54,56,57	0
3	MLI	A	606	7/7	0.83	0.32	51,51,53,54	0

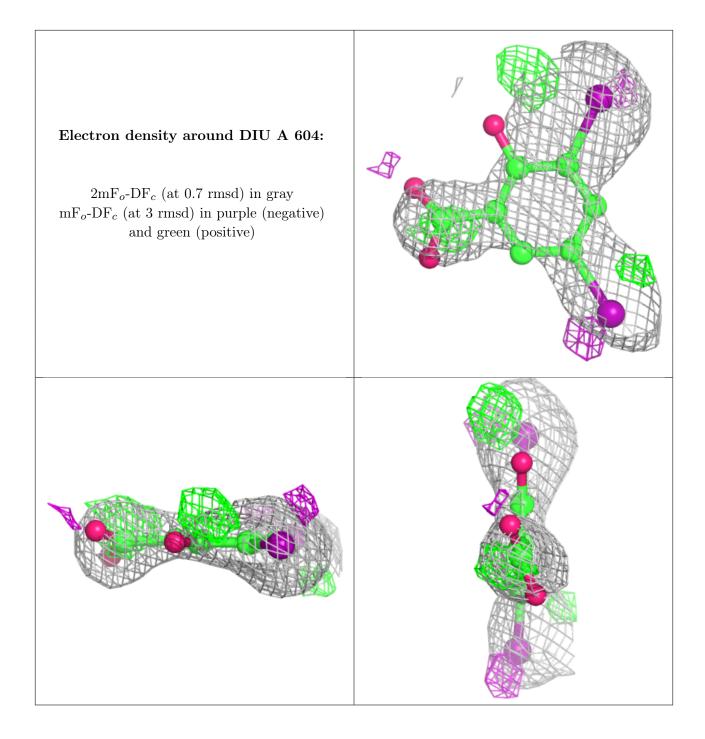


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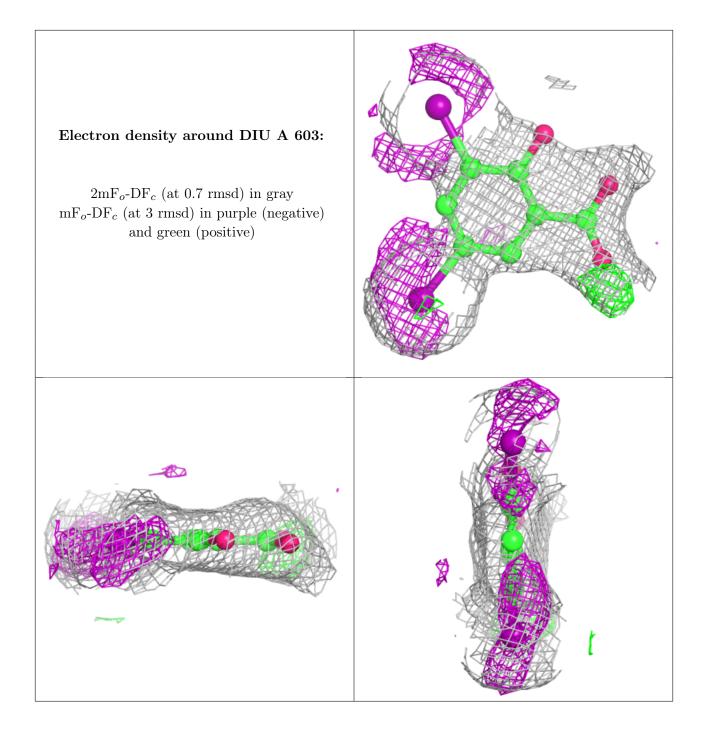
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
3	MLI	A	610	7/7	0.85	0.19	48,51,54,56	0
3	MLI	A	607	7/7	0.88	0.19	49,52,53,55	0
5	ACT	A	620	4/4	0.88	0.17	50,52,52,53	0
2	DIU	A	604	12/12	0.89	0.23	26,32,58,99	12
4	FMT	A	616	3/3	0.89	0.19	55,55,56,56	0
3	MLI	A	605	7/7	0.91	0.15	47,50,51,51	0
4	FMT	A	613	3/3	0.92	0.36	38,38,39,40	0
3	MLI	A	609	7/7	0.92	0.21	28,31,35,42	0
3	MLI	A	608	7/7	0.92	0.29	30,42,45,46	0
3	MLI	A	611	7/7	0.92	0.20	62,64,68,68	0
4	FMT	A	618	3/3	0.93	0.21	38,38,38,39	0
4	FMT	A	614	3/3	0.94	0.27	52,52,53,55	0
4	FMT	A	617	3/3	0.95	0.16	43,43,45,48	0
4	FMT	A	615	3/3	0.96	0.14	45,45,47,49	0
4	FMT	A	612	3/3	0.96	0.11	28,28,29,32	0
2	DIU	A	603	12/12	0.98	0.11	42,49,52,62	0
2	DIU	A	601	12/12	0.99	0.10	37,40,42,44	0
2	DIU	A	602	12/12	1.00	0.09	26,33,36,38	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.





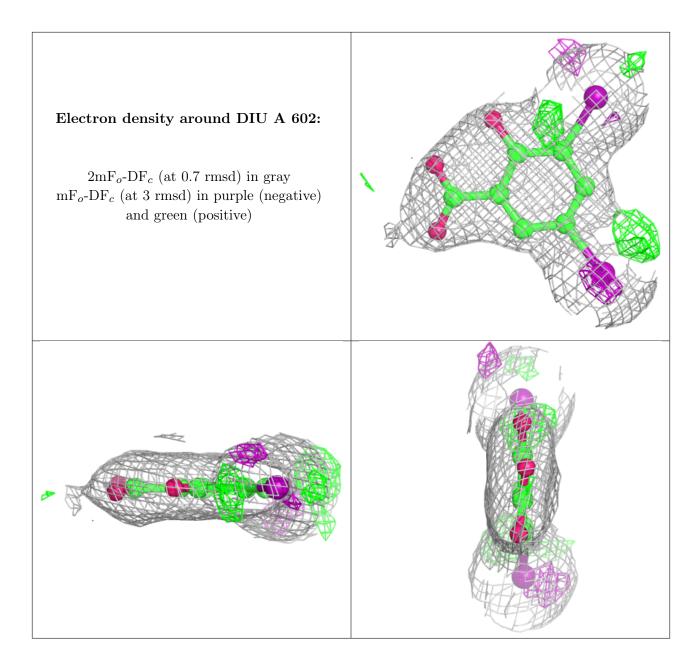






Electron density around DIU A 601: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray ${ m mF}_o{ m -DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)





6.5 Other polymers (i)

There are no such residues in this entry.

