

wwPDB X-ray Structure Validation Summary Report (i)

Sep 26, 2023 – 03:00 AM EDT

PDB ID : 6AWU

Title: Structure of PR 10 Allergen Ara h 8.01 in complex with caffeic acid

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Deposited on : 2017-09-06

Resolution : 3.05 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)

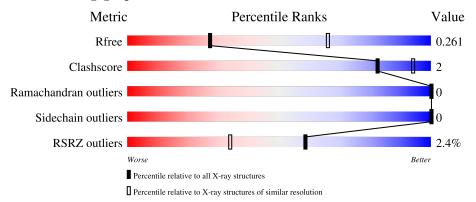
Validation Pipeline (wwPDB-VP) : 2.35.1

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.05 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{A})}) \end{array}$
R_{free}	130704	1754 (3.10-3.02)
Clashscore	141614	1864 (3.10-3.02)
Ramachandran outliers	138981	1794 (3.10-3.02)
Sidechain outliers	138945	1793 (3.10-3.02)
RSRZ outliers	127900	1713 (3.10-3.02)

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	A	156	6% 95%	5%
1	В	156	96%	•
1	С	156	92%	8%
1	D	156	95%	5%

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:

M	[ol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	2	DHC	С	202	-	-	-	X



2 Entry composition (i)

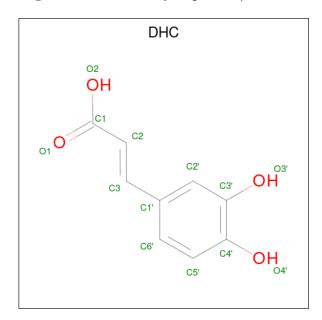
There are 5 unique types of molecules in this entry. The entry contains 4726 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Ara h 8 allergen.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Λ	156	Total	С	N	О	S	0	0	0
1	A	150	1125	719	179	226	1	0	U	U
1	В	156	Total	С	N	О	S	0	0	0
1	Б	150	1163	742	184	236	1	0	U	U
1	С	156	Total	С	N	О	S	0	0	0
1		150	1147	731	180	235	1	0	U	U
1	D	156	Total	С	N	О	S	0	0	0
1	ע	150	1175	750	186	238	1	U	U	U

• Molecule 2 is CAFFEIC ACID (three-letter code: DHC) (formula: $C_9H_8O_4$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 13 9 4	0	0
2	A	1	Total C O 13 9 4	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	В	1	Total C O	0	0
	Б	1	13 9 4	U	U
2	В	1	Total C O	0	0
	D	1	13 9 4	U	U
2	\mathbf{C}	1	Total C O	0	0
2		1	13 9 4	U	U
2	С	1	Total C O	0	0
2		1	13 9 4	U	U
2	D	1	Total C O	0	0
	D	1	13 9 4	U	U
2	D	1	Total C O	0	0
		1	13 9 4		

• Molecule 3 is SODIUM ION (three-letter code: NA) (formula: Na) (labeled as "Ligand of Interest" by depositor).

\mathbf{Mol}	Chain	Residues	Atoms	ZeroOcc	AltConf
3	В	1	Total Na 1 1	0	0
3	С	1	Total Na 1 1	0	0

• Molecule 4 is CHLORIDE ION (three-letter code: CL) (formula: Cl) (labeled as "Ligand of Interest" by depositor).

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

• Molecule 5 is water.

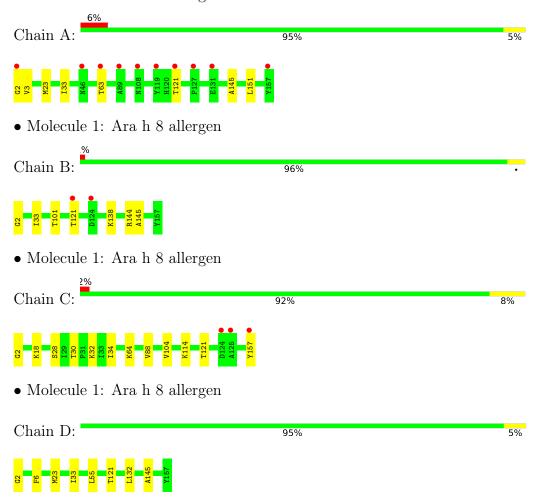
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	2	Total O 2 2	0	0
5	В	3	Total O 3 3	0	0
5	С	2	Total O 2 2	0	0
5	D	2	Total O 2 2	0	0



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: Ara h 8 allergen





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	54.92Å 60.80Å 186.27Å	Donogitor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.00 - 3.05	Depositor
rtesolution (A)	31.76 - 3.05	EDS
% Data completeness	99.0 (40.00-3.05)	Depositor
(in resolution range)	99.2 (31.76-3.05)	EDS
R_{merge}	0.08	Depositor
R_{sym}	0.08	Depositor
$< I/\sigma(I) > 1$	3.30 (at 3.06Å)	Xtriage
Refinement program	REFMAC 5.8.0135, HKL-3000	Depositor
P. P.	0.209 , 0.259	Depositor
R, R_{free}	0.212 , 0.261	DCC
R_{free} test set	626 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	75.5	Xtriage
Anisotropy	0.172	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.31, 44.2	EDS
L-test for twinning ²	$ < L >=0.51, < L^2>=0.35$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4726	wwPDB-VP
Average B, all atoms (Å ²)	85.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 18.34% 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: NA, DHC, CL

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	
IVIOI		RMSZ	# Z > 5	RMSZ	# Z > 5
1	A	0.67	0/1147	0.77	0/1565
1	В	0.83	0/1185	0.83	0/1608
1	С	0.73	0/1169	0.77	0/1591
1	D	0.77	0/1197	0.80	0/1621
All	All	0.75	0/4698	0.79	0/6385

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 (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	1125	0	1070	7	1
1	В	1163	0	1141	8	0
1	С	1147	0	1102	7	0
1	D	1175	0	1167	5	0
2	A	26	0	13	1	0
2	В	26	0	13	1	0
2	С	26	0	14	0	0
2	D	26	0	13	1	0
3	В	1	0	0	0	0

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Continued	trom	mmoninonic	maaa
COHABABACA		DIEUIUU	DUIUE
0 0 1000100000			

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	С	1	0	0	0	0
4	В	1	0	0	1	0
5	A	2	0	0	0	0
5	В	3	0	0	0	0
5	С	2	0	0	0	0
5	D	2	0	0	0	0
All	All	4726	0	4533	23	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 2.

The worst 5 of 23 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$egin{aligned} ext{Clash} \ ext{overlap } (ext{Å}) \end{aligned}$	
1:C:28:SER:O	1:C:32:LYS:HE3	1.57	1.05	
1:C:30:THR:HG23	1:C:34:ILE:HD12	1.53	0.90	
1:A:33:ILE:HD12	1:B:33:ILE:HD12	1.67	0.76	
1:A:33:ILE:HD12	1:B:33:ILE:CD1	2.26	0.66	
1:A:33:ILE:CD1	1:B:33:ILE:HD12	2.32	0.60	

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	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)	
1:A:3:VAL:O	1:A:63:THR:N[4_555]	2.09	0.11	

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	A	154/156~(99%)	152 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Favoured Allowed		Perce	Percentiles	
1	В	154/156 (99%)	152 (99%)	2 (1%)	0	100	100	
1	С	154/156 (99%)	151 (98%)	3 (2%)	0	100	100	
1	D	154/156 (99%)	152 (99%)	2 (1%)	0	100	100	
All	All	616/624 (99%)	607 (98%)	9 (2%)	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	112/128 (88%)	112 (100%)	0	100	100	
1	В	122/128 (95%)	122 (100%)	0	100	100	
1	С	118/128 (92%)	118 (100%)	0	100	100	
1	D	125/128 (98%)	125 (100%)	0	100	100	
All	All	$477/512 \ (93\%)$	477 (100%)	0	100	100	

There are no protein residues with a non-rotameric sidechain to report.

Sometimes 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 monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 11 ligands modelled in this entry, 3 are monoatomic - leaving 8 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with |Z| > 2 is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Trmo	Chain	Res	Link	Во	ond leng	ths	Bond angles		
MIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	DHC	A	202	-	13,13,13	1.81	2 (15%)	17,17,17	1.11	1 (5%)
2	DHC	D	202	-	13,13,13	2.63	2 (15%)	17,17,17	1.43	2 (11%)
2	DHC	С	202	-	13,13,13	1.83	1 (7%)	17,17,17	0.96	0
2	DHC	D	201	-	13,13,13	1.91	1 (7%)	17,17,17	1.43	2 (11%)
2	DHC	A	201	-	13,13,13	1.60	1 (7%)	17,17,17	1.32	1 (5%)
2	DHC	С	201	-	13,13,13	2.08	1 (7%)	17,17,17	1.07	0
2	DHC	В	201	-	13,13,13	1.92	2 (15%)	17,17,17	1.28	2 (11%)
2	DHC	В	202	-	13,13,13	1.95	1 (7%)	17,17,17	1.37	1 (5%)

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	DHC	A	202	-	-	0/5/5/5	0/1/1/1
2	DHC	D	202	-	-	3/5/5/5	0/1/1/1
2	DHC	С	202	-	-	0/5/5/5	0/1/1/1
2	DHC	D	201	-	-	0/5/5/5	0/1/1/1
2	DHC	A	201	-	-	0/5/5/5	0/1/1/1
2	DHC	С	201	-	-	0/5/5/5	0/1/1/1
2	DHC	В	201	-	-	2/5/5/5	0/1/1/1
2	DHC	В	202	-	-	0/5/5/5	0/1/1/1



The worst	5	of	11	bond	length	outliers	are	listed	below:
TITO WOLDS	$\mathbf{\mathcal{I}}$	\circ		Ollu	10115011	Outilitie	COL C	IIDUCA	DOIOW.

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$Ideal(\AA)$
2	D	202	DHC	O1-C1	7.34	1.41	1.23
2	С	201	DHC	C4'-C3'	7.01	1.51	1.40
2	D	201	DHC	C4'-C3'	6.36	1.50	1.40
2	В	202	DHC	C4'-C3'	6.35	1.50	1.40
2	С	202	DHC	C4'-C3'	5.75	1.49	1.40

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

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	D	202	DHC	C1'-C3-C2	-4.18	117.34	126.91
2	A	201	DHC	C5'-C4'-C3'	-3.41	115.92	119.67
2	D	201	DHC	C5'-C4'-C3'	-3.38	115.96	119.67
2	В	202	DHC	C5'-C4'-C3'	-3.27	116.07	119.67
2	В	201	DHC	C1'-C3-C2	-2.82	120.46	126.91

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	D	202	DHC	C2'-C1'-C3-C2
2	В	201	DHC	O2-C1-C2-C3
2	В	201	DHC	O1-C1-C2-C3
2	D	202	DHC	O2-C1-C2-C3
2	D	202	DHC	C6'-C1'-C3-C2

There are no ring outliers.

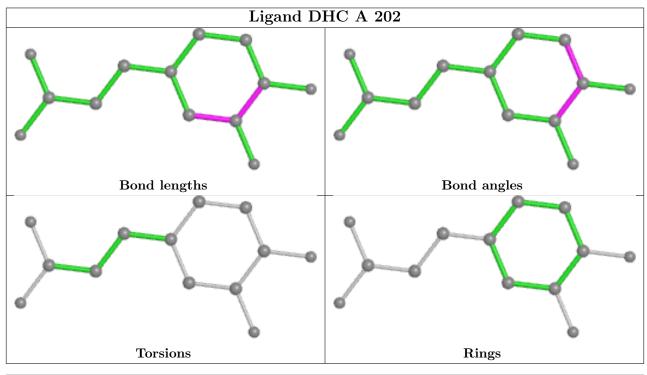
3 monomers are involved in 3 short contacts:

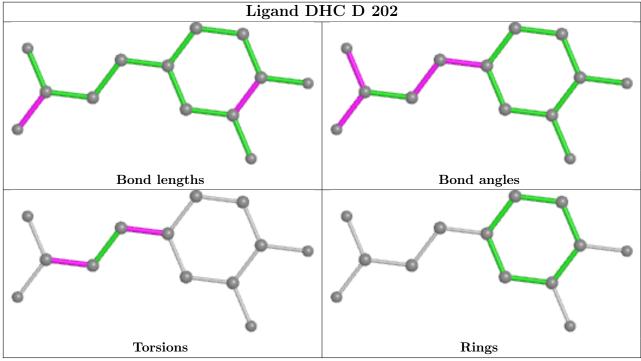
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	D	201	DHC	1	0
2	A	201	DHC	1	0
2	В	202	DHC	1	0

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

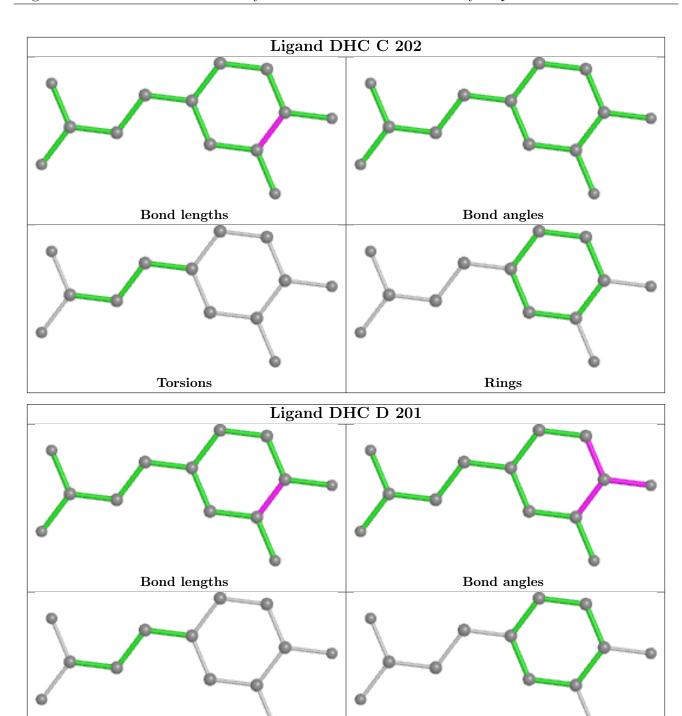


average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





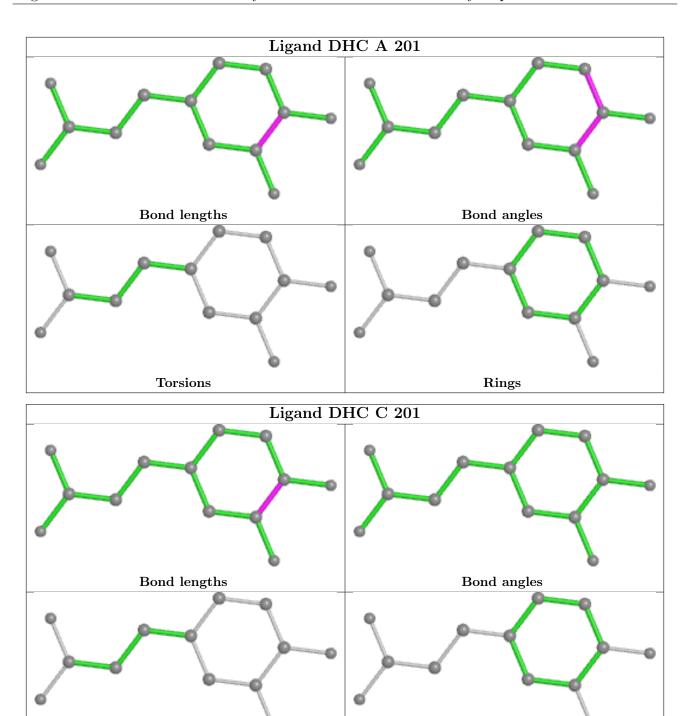






Rings

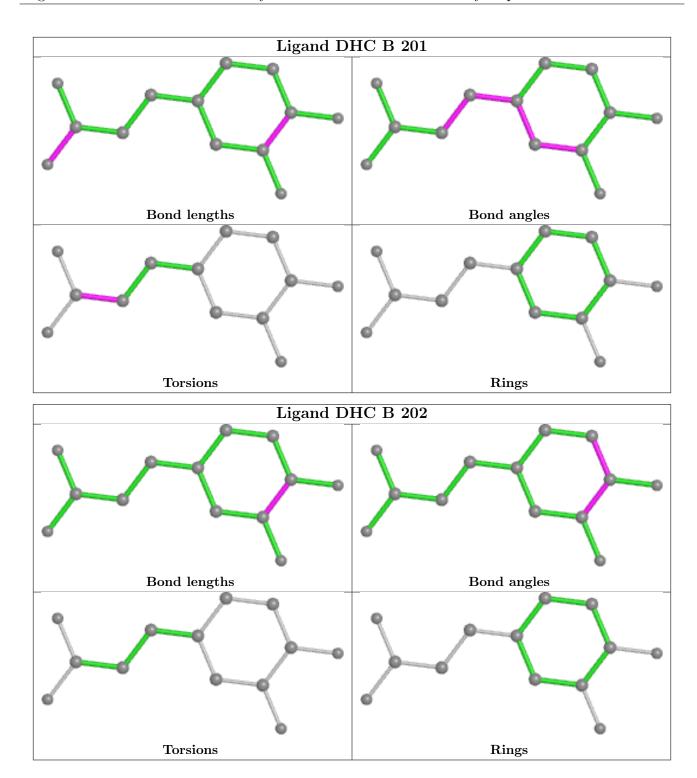
Torsions





Rings

Torsions



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>	$\# \mathrm{RSRZ}{>}2$	$\mathbf{OWAB}(\mathrm{\AA}^2)$	Q<0.9
1	A	156/156 (100%)	0.24	10 (6%) 19 7	57, 104, 158, 192	0
1	В	156/156 (100%)	-0.35	2 (1%) 77 56	39, 62, 99, 133	0
1	С	156/156 (100%)	-0.06	3 (1%) 66 43	59, 88, 127, 152	0
1	D	156/156 (100%)	-0.25	0 100 100	46, 72, 111, 138	0
All	All	624/624 (100%)	-0.10	15 (2%) 59 34	39, 82, 139, 192	0

The worst 5 of 15 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	89	ALA	3.6
1	A	131	GLU	3.4
1	A	119	TYR	3.2
1	С	157	TYR	3.1
1	A	108	ASN	2.6

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.

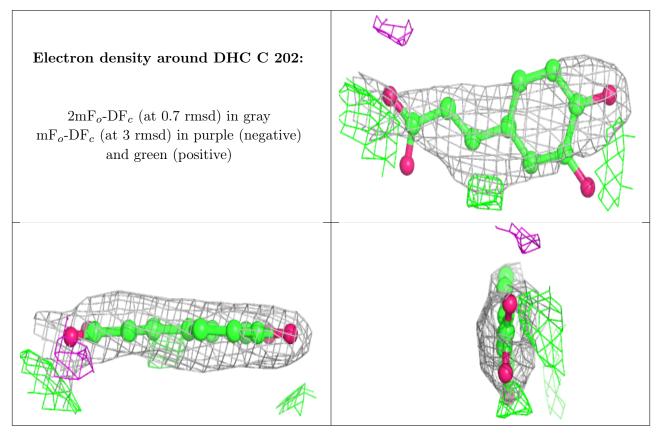
6.4 Ligands (i)

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
2	DHC	С	202	13/13	0.71	0.41	84,101,120,143	0
2	DHC	A	202	13/13	0.79	0.37	73,86,109,110	0
2	DHC	В	201	13/13	0.83	0.35	47,61,79,83	0
3	NA	С	203	1/1	0.83	0.17	66,66,66,66	0
2	DHC	D	202	13/13	0.89	0.31	67,74,91,110	0
2	DHC	С	201	13/13	0.89	0.34	65,70,80,81	0
2	DHC	A	201	13/13	0.91	0.27	65,72,76,83	0
2	DHC	D	201	13/13	0.92	0.22	50,64,71,79	0
2	DHC	В	202	13/13	0.93	0.22	47,56,66,69	0
3	NA	В	203	1/1	0.94	0.19	64,64,64,64	0
4	CL	В	204	1/1	0.95	0.10	46,46,46,46	0

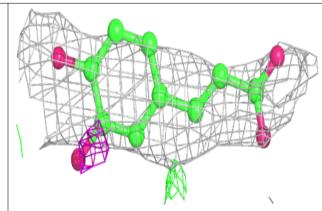
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

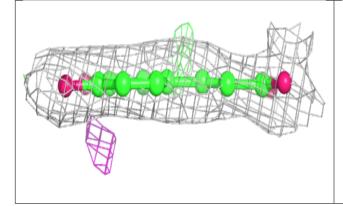


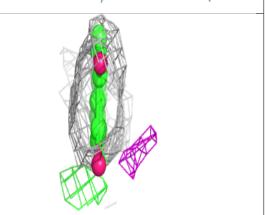


Electron density around DHC A 202:

 $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray $\mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)

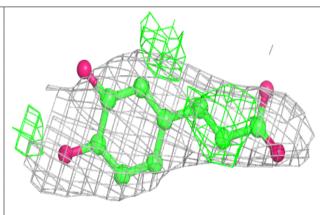


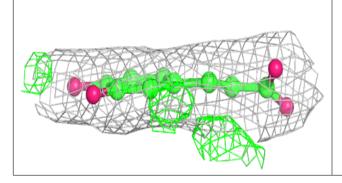


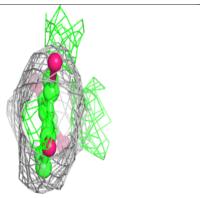


Electron density around DHC B 201:

 $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray $\mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)







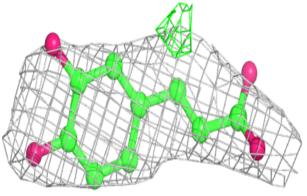


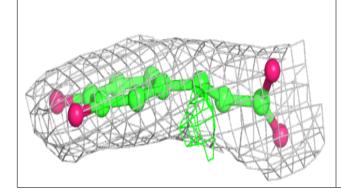
Electron density around NA C 203: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray $\mathrm{mF}_{o}\text{-}\mathrm{DF}_{c}$ (at 3 rmsd) in purple (negative) and green (positive)

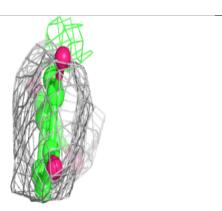


Electron density around DHC D 202:

 $2 {
m mF}_o {
m -DF}_c$ (at 0.7 rmsd) in gray ${
m mF}_o {
m -DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)

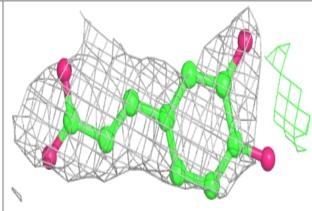


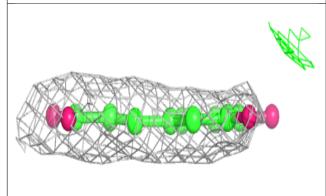


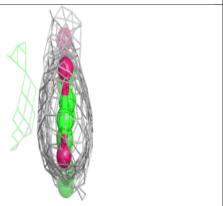


Electron density around DHC C 201:

 $2 \text{mF}_o\text{-DF}_c$ (at 0.7 rmsd) in gray $\text{mF}_o\text{-DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)



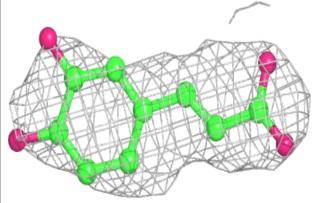


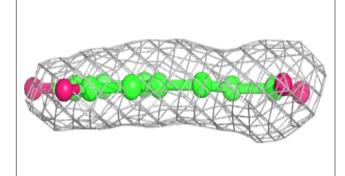


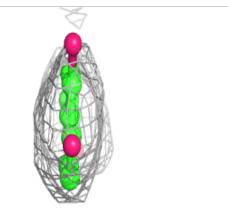


Electron density around DHC A 201:

 $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray $\mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)

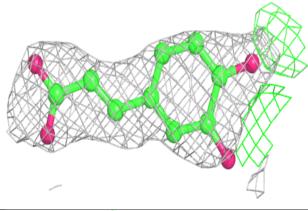


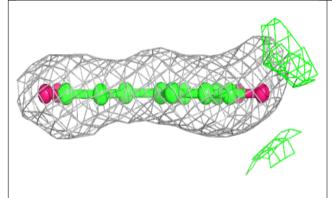


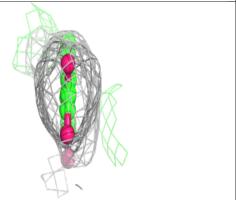


Electron density around DHC D 201:

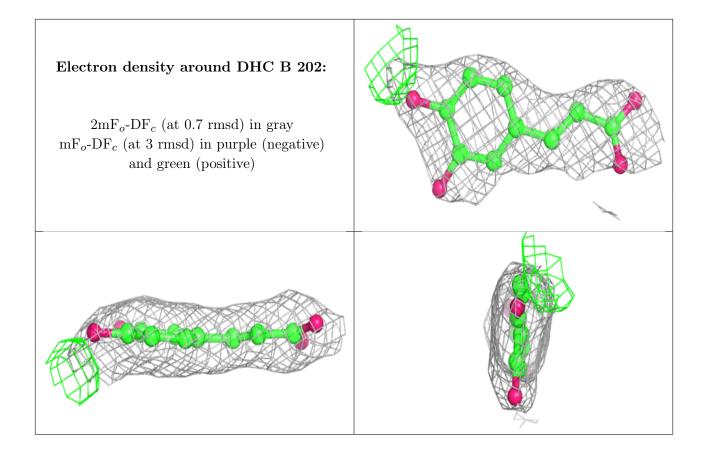
 $2 \mathrm{mF}_o\text{-DF}_c$ (at 0.7 rmsd) in gray $\mathrm{mF}_o\text{-DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)



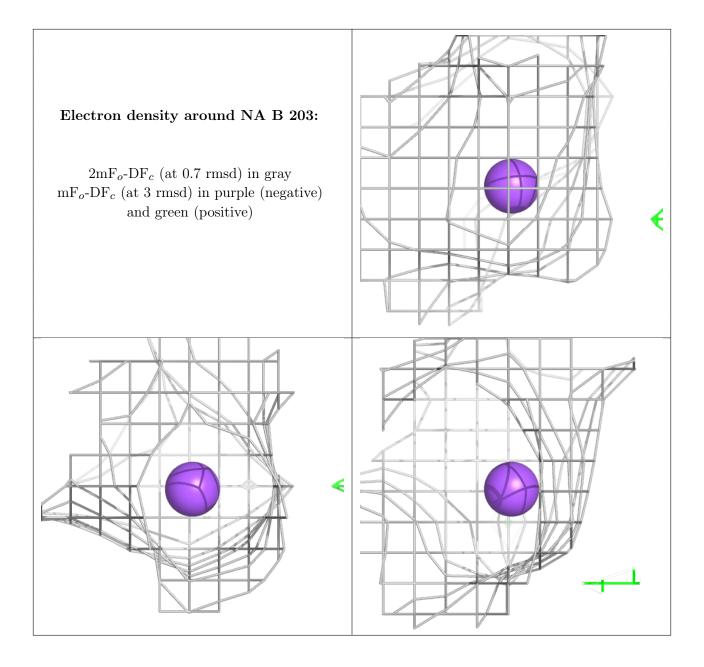




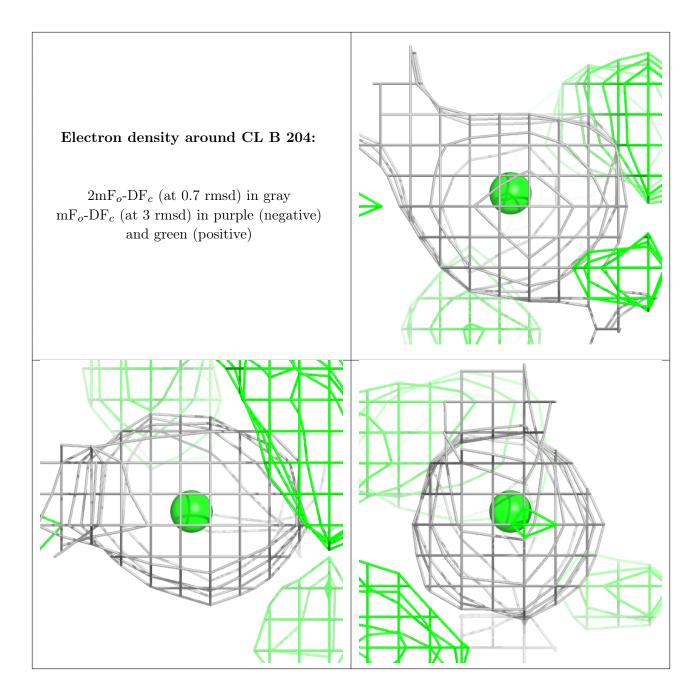












6.5 Other polymers (i)

There are no such residues in this entry.

