



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 07:20 PM UTC

PDB ID : 6HXO / pdb_00006hxo
Title : Structure of the citryl-CoA lyase core module of Chlorobium limicola ATP citrate lyase (space group P21)
Authors : Verstraete, K.; Verschueren, K.
Deposited on : 2018-10-17
Resolution : 1.50 Å(reported)

This is a Full wwPDB X-ray Structure Validation 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 types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

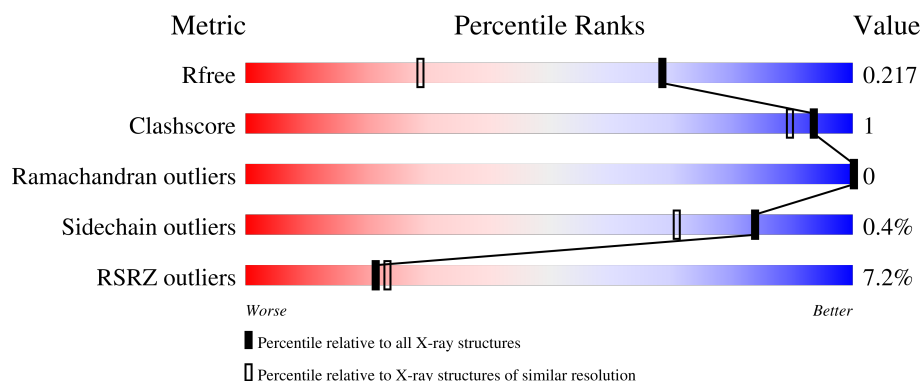
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.50 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}	180053	4037 (1.50-1.50)
Clashscore	190562	4235 (1.50-1.50)
Ramachandran outliers	187476	4153 (1.50-1.50)
Sidechain outliers	187428	4150 (1.50-1.50)
RSRZ outliers	180081	4039 (1.50-1.50)

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	279	9% 88% 5% 7%
1	B	279	2% 92% • 6%
1	C	279	6% 89% • 8%
1	D	279	11% 89% • 8%
1	E	279	8% 59% 5% 35%

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Mol	Chain	Length	Quality of chain
1	F	279	12% 86% 7% 7%
1	G	279	% 91% • 8%
1	H	279	2% 90% • 8%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 16845 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 ATP-citrate lyase alpha-subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	260	Total	C	N	O	S	0	0	0
			2011	1282	343	373	13			
1	B	261	Total	C	N	O	S	0	2	0
			2035	1296	347	378	14			
1	C	256	Total	C	N	O	S	0	1	0
			1988	1269	338	369	12			
1	D	257	Total	C	N	O	S	0	2	0
			2003	1277	342	372	12			
1	E	180	Total	C	N	O	S	0	0	0
			1379	876	235	258	10			
1	F	260	Total	C	N	O	S	0	3	0
			2039	1301	346	379	13			
1	G	256	Total	C	N	O	S	0	2	0
			1997	1272	340	373	12			
1	H	256	Total	C	N	O	S	0	2	0
			1995	1271	339	373	12			

There are 168 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	330	MET	-	initiating methionine	UNP Q9AJC4
A	331	GLY	-	expression tag	UNP Q9AJC4
A	332	SER	-	expression tag	UNP Q9AJC4
A	333	SER	-	expression tag	UNP Q9AJC4
A	334	HIS	-	expression tag	UNP Q9AJC4
A	335	HIS	-	expression tag	UNP Q9AJC4
A	336	HIS	-	expression tag	UNP Q9AJC4
A	337	HIS	-	expression tag	UNP Q9AJC4
A	338	HIS	-	expression tag	UNP Q9AJC4
A	339	HIS	-	expression tag	UNP Q9AJC4
A	340	SER	-	expression tag	UNP Q9AJC4
A	341	SER	-	expression tag	UNP Q9AJC4
A	342	GLY	-	expression tag	UNP Q9AJC4

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Chain	Residue	Modelled	Actual	Comment	Reference
A	343	LEU	-	expression tag	UNP Q9AJC4
A	344	VAL	-	expression tag	UNP Q9AJC4
A	345	PRO	-	expression tag	UNP Q9AJC4
A	346	ARG	-	expression tag	UNP Q9AJC4
A	347	GLY	-	expression tag	UNP Q9AJC4
A	348	SER	-	expression tag	UNP Q9AJC4
A	349	HIS	-	expression tag	UNP Q9AJC4
A	350	MET	-	expression tag	UNP Q9AJC4
B	330	MET	-	initiating methionine	UNP Q9AJC4
B	331	GLY	-	expression tag	UNP Q9AJC4
B	332	SER	-	expression tag	UNP Q9AJC4
B	333	SER	-	expression tag	UNP Q9AJC4
B	334	HIS	-	expression tag	UNP Q9AJC4
B	335	HIS	-	expression tag	UNP Q9AJC4
B	336	HIS	-	expression tag	UNP Q9AJC4
B	337	HIS	-	expression tag	UNP Q9AJC4
B	338	HIS	-	expression tag	UNP Q9AJC4
B	339	HIS	-	expression tag	UNP Q9AJC4
B	340	SER	-	expression tag	UNP Q9AJC4
B	341	SER	-	expression tag	UNP Q9AJC4
B	342	GLY	-	expression tag	UNP Q9AJC4
B	343	LEU	-	expression tag	UNP Q9AJC4
B	344	VAL	-	expression tag	UNP Q9AJC4
B	345	PRO	-	expression tag	UNP Q9AJC4
B	346	ARG	-	expression tag	UNP Q9AJC4
B	347	GLY	-	expression tag	UNP Q9AJC4
B	348	SER	-	expression tag	UNP Q9AJC4
B	349	HIS	-	expression tag	UNP Q9AJC4
B	350	MET	-	expression tag	UNP Q9AJC4
C	330	MET	-	initiating methionine	UNP Q9AJC4
C	331	GLY	-	expression tag	UNP Q9AJC4
C	332	SER	-	expression tag	UNP Q9AJC4
C	333	SER	-	expression tag	UNP Q9AJC4
C	334	HIS	-	expression tag	UNP Q9AJC4
C	335	HIS	-	expression tag	UNP Q9AJC4
C	336	HIS	-	expression tag	UNP Q9AJC4
C	337	HIS	-	expression tag	UNP Q9AJC4
C	338	HIS	-	expression tag	UNP Q9AJC4
C	339	HIS	-	expression tag	UNP Q9AJC4
C	340	SER	-	expression tag	UNP Q9AJC4
C	341	SER	-	expression tag	UNP Q9AJC4
C	342	GLY	-	expression tag	UNP Q9AJC4

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Chain	Residue	Modelled	Actual	Comment	Reference
C	343	LEU	-	expression tag	UNP Q9AJC4
C	344	VAL	-	expression tag	UNP Q9AJC4
C	345	PRO	-	expression tag	UNP Q9AJC4
C	346	ARG	-	expression tag	UNP Q9AJC4
C	347	GLY	-	expression tag	UNP Q9AJC4
C	348	SER	-	expression tag	UNP Q9AJC4
C	349	HIS	-	expression tag	UNP Q9AJC4
C	350	MET	-	expression tag	UNP Q9AJC4
D	330	MET	-	initiating methionine	UNP Q9AJC4
D	331	GLY	-	expression tag	UNP Q9AJC4
D	332	SER	-	expression tag	UNP Q9AJC4
D	333	SER	-	expression tag	UNP Q9AJC4
D	334	HIS	-	expression tag	UNP Q9AJC4
D	335	HIS	-	expression tag	UNP Q9AJC4
D	336	HIS	-	expression tag	UNP Q9AJC4
D	337	HIS	-	expression tag	UNP Q9AJC4
D	338	HIS	-	expression tag	UNP Q9AJC4
D	339	HIS	-	expression tag	UNP Q9AJC4
D	340	SER	-	expression tag	UNP Q9AJC4
D	341	SER	-	expression tag	UNP Q9AJC4
D	342	GLY	-	expression tag	UNP Q9AJC4
D	343	LEU	-	expression tag	UNP Q9AJC4
D	344	VAL	-	expression tag	UNP Q9AJC4
D	345	PRO	-	expression tag	UNP Q9AJC4
D	346	ARG	-	expression tag	UNP Q9AJC4
D	347	GLY	-	expression tag	UNP Q9AJC4
D	348	SER	-	expression tag	UNP Q9AJC4
D	349	HIS	-	expression tag	UNP Q9AJC4
D	350	MET	-	expression tag	UNP Q9AJC4
E	330	MET	-	initiating methionine	UNP Q9AJC4
E	331	GLY	-	expression tag	UNP Q9AJC4
E	332	SER	-	expression tag	UNP Q9AJC4
E	333	SER	-	expression tag	UNP Q9AJC4
E	334	HIS	-	expression tag	UNP Q9AJC4
E	335	HIS	-	expression tag	UNP Q9AJC4
E	336	HIS	-	expression tag	UNP Q9AJC4
E	337	HIS	-	expression tag	UNP Q9AJC4
E	338	HIS	-	expression tag	UNP Q9AJC4
E	339	HIS	-	expression tag	UNP Q9AJC4
E	340	SER	-	expression tag	UNP Q9AJC4
E	341	SER	-	expression tag	UNP Q9AJC4
E	342	GLY	-	expression tag	UNP Q9AJC4

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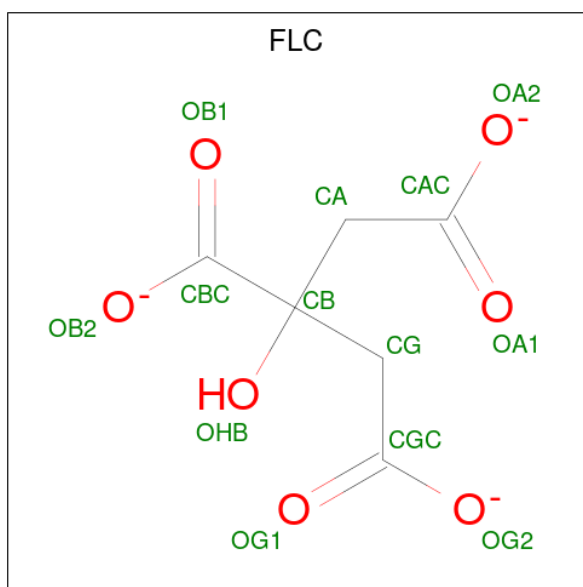
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E	344	VAL	-	expression tag	UNP Q9AJC4
E	345	PRO	-	expression tag	UNP Q9AJC4
E	346	ARG	-	expression tag	UNP Q9AJC4
E	347	GLY	-	expression tag	UNP Q9AJC4
E	348	SER	-	expression tag	UNP Q9AJC4
E	349	HIS	-	expression tag	UNP Q9AJC4
E	350	MET	-	expression tag	UNP Q9AJC4
F	330	MET	-	initiating methionine	UNP Q9AJC4
F	331	GLY	-	expression tag	UNP Q9AJC4
F	332	SER	-	expression tag	UNP Q9AJC4
F	333	SER	-	expression tag	UNP Q9AJC4
F	334	HIS	-	expression tag	UNP Q9AJC4
F	335	HIS	-	expression tag	UNP Q9AJC4
F	336	HIS	-	expression tag	UNP Q9AJC4
F	337	HIS	-	expression tag	UNP Q9AJC4
F	338	HIS	-	expression tag	UNP Q9AJC4
F	339	HIS	-	expression tag	UNP Q9AJC4
F	340	SER	-	expression tag	UNP Q9AJC4
F	341	SER	-	expression tag	UNP Q9AJC4
F	342	GLY	-	expression tag	UNP Q9AJC4
F	343	LEU	-	expression tag	UNP Q9AJC4
F	344	VAL	-	expression tag	UNP Q9AJC4
F	345	PRO	-	expression tag	UNP Q9AJC4
F	346	ARG	-	expression tag	UNP Q9AJC4
F	347	GLY	-	expression tag	UNP Q9AJC4
F	348	SER	-	expression tag	UNP Q9AJC4
F	349	HIS	-	expression tag	UNP Q9AJC4
F	350	MET	-	expression tag	UNP Q9AJC4
G	330	MET	-	initiating methionine	UNP Q9AJC4
G	331	GLY	-	expression tag	UNP Q9AJC4
G	332	SER	-	expression tag	UNP Q9AJC4
G	333	SER	-	expression tag	UNP Q9AJC4
G	334	HIS	-	expression tag	UNP Q9AJC4
G	335	HIS	-	expression tag	UNP Q9AJC4
G	336	HIS	-	expression tag	UNP Q9AJC4
G	337	HIS	-	expression tag	UNP Q9AJC4
G	338	HIS	-	expression tag	UNP Q9AJC4
G	339	HIS	-	expression tag	UNP Q9AJC4
G	340	SER	-	expression tag	UNP Q9AJC4
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G	342	GLY	-	expression tag	UNP Q9AJC4

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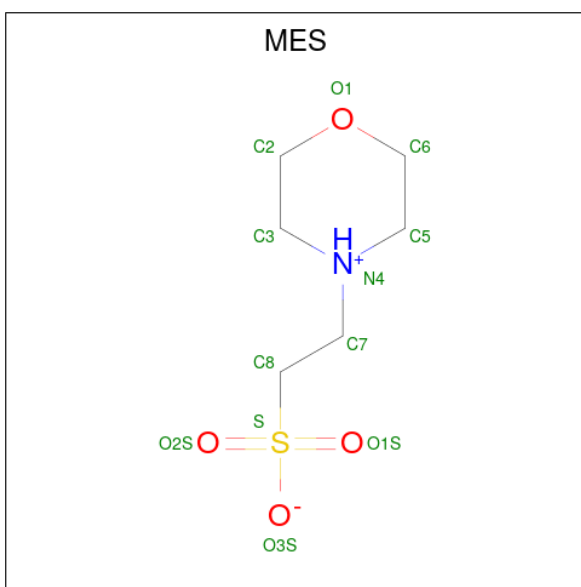
Chain	Residue	Modelled	Actual	Comment	Reference
G	343	LEU	-	expression tag	UNP Q9AJC4
G	344	VAL	-	expression tag	UNP Q9AJC4
G	345	PRO	-	expression tag	UNP Q9AJC4
G	346	ARG	-	expression tag	UNP Q9AJC4
G	347	GLY	-	expression tag	UNP Q9AJC4
G	348	SER	-	expression tag	UNP Q9AJC4
G	349	HIS	-	expression tag	UNP Q9AJC4
G	350	MET	-	expression tag	UNP Q9AJC4
H	330	MET	-	initiating methionine	UNP Q9AJC4
H	331	GLY	-	expression tag	UNP Q9AJC4
H	332	SER	-	expression tag	UNP Q9AJC4
H	333	SER	-	expression tag	UNP Q9AJC4
H	334	HIS	-	expression tag	UNP Q9AJC4
H	335	HIS	-	expression tag	UNP Q9AJC4
H	336	HIS	-	expression tag	UNP Q9AJC4
H	337	HIS	-	expression tag	UNP Q9AJC4
H	338	HIS	-	expression tag	UNP Q9AJC4
H	339	HIS	-	expression tag	UNP Q9AJC4
H	340	SER	-	expression tag	UNP Q9AJC4
H	341	SER	-	expression tag	UNP Q9AJC4
H	342	GLY	-	expression tag	UNP Q9AJC4
H	343	LEU	-	expression tag	UNP Q9AJC4
H	344	VAL	-	expression tag	UNP Q9AJC4
H	345	PRO	-	expression tag	UNP Q9AJC4
H	346	ARG	-	expression tag	UNP Q9AJC4
H	347	GLY	-	expression tag	UNP Q9AJC4
H	348	SER	-	expression tag	UNP Q9AJC4
H	349	HIS	-	expression tag	UNP Q9AJC4
H	350	MET	-	expression tag	UNP Q9AJC4

- Molecule 2 is CITRATE ANION (CCD ID: FLC) (formula: $C_6H_5O_7$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			13	6	7		
2	B	1	Total	C	O	0	0
			13	6	7		
2	E	1	Total	C	O	0	0
			13	6	7		
2	F	1	Total	C	O	0	0
			13	6	7		
2	G	1	Total	C	O	0	0
			13	6	7		
2	H	1	Total	C	O	0	0
			13	6	7		

- Molecule 3 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (CCD ID: MES) (formula: $C_6H_{13}NO_4S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	C	1	Total	C	N	O	S	0	0
			12	6	1	4	1		
3	C	1	Total	C	N	O	S	0	0
			12	6	1	4	1		
3	E	1	Total	C	N	O	S	0	0
			12	6	1	4	1		

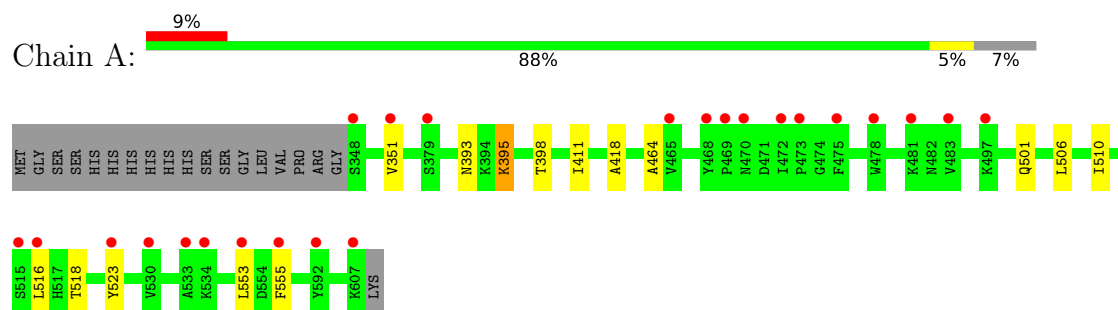
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	140	Total	O	0	0
			140	140		
4	B	201	Total	O	0	0
			201	201		
4	C	142	Total	O	0	0
			142	142		
4	D	159	Total	O	0	0
			159	159		
4	E	97	Total	O	0	0
			97	97		
4	F	168	Total	O	0	0
			168	168		
4	G	202	Total	O	0	0
			202	202		
4	H	175	Total	O	0	0
			175	175		

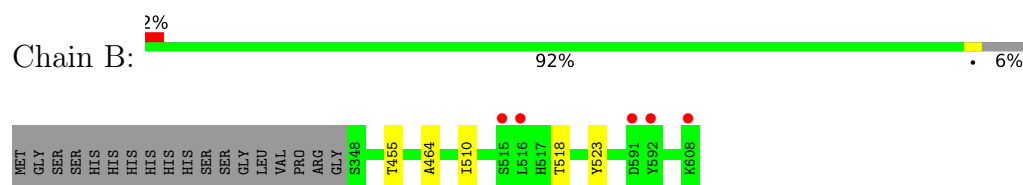
3 Residue-property plots [i](#)

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.

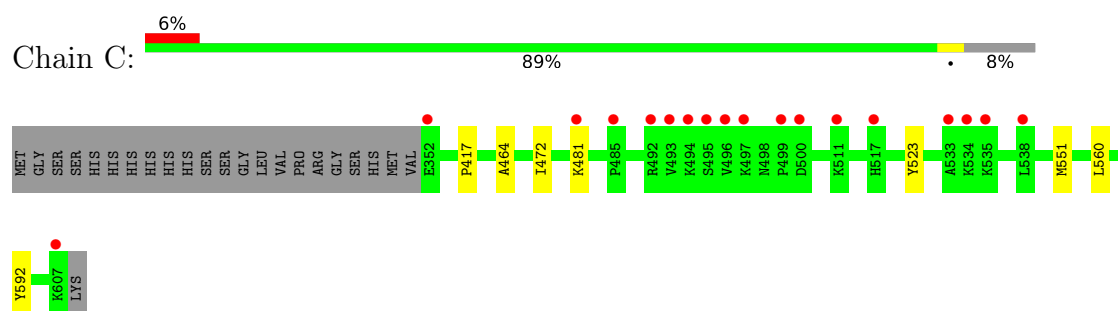
- Molecule 1: ATP-citrate lyase alpha-subunit



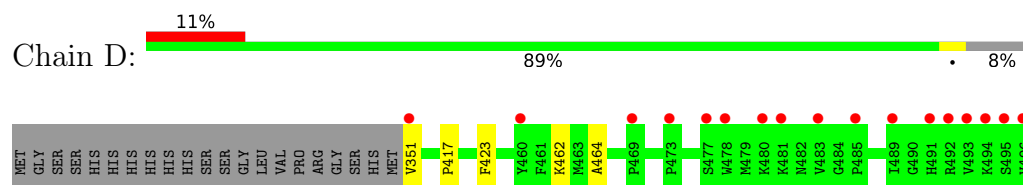
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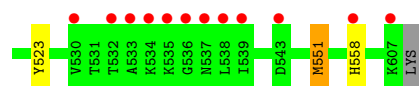


- Molecule 1: ATP-citrate lyase alpha-subunit

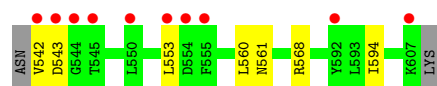
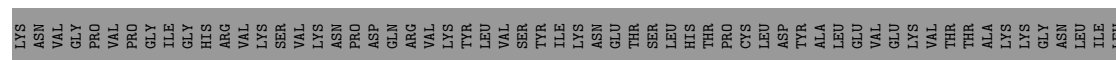
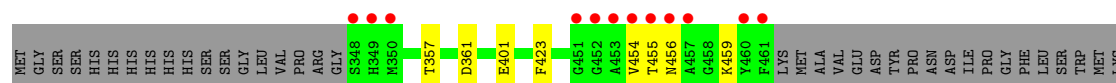


- Molecule 1: ATP-citrate lyase alpha-subunit

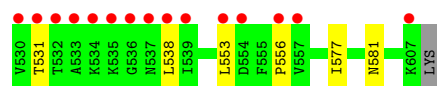
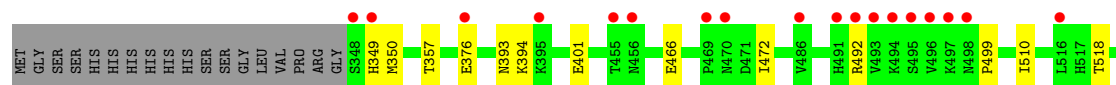
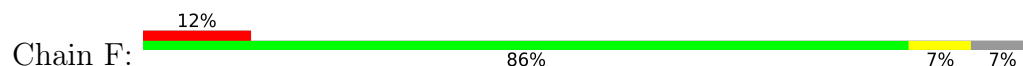




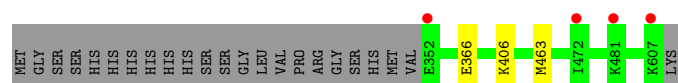
- Molecule 1: ATP-citrate lyase alpha-subunit



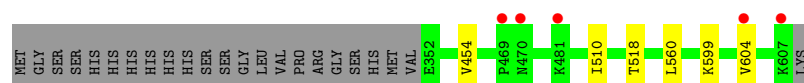
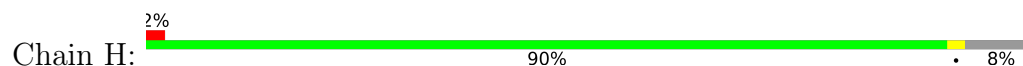
- Molecule 1: ATP-citrate lyase alpha-subunit



- Molecule 1: ATP-citrate lyase alpha-subunit



- Molecule 1: ATP-citrate lyase alpha-subunit



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	99.26Å 106.42Å 105.05Å 90.00° 102.11° 90.00°	Depositor
Resolution (Å)	48.53 – 1.50 48.53 – 1.50	Depositor EDS
% Data completeness (in resolution range)	97.6 (48.53-1.50) 97.6 (48.53-1.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.02 (at 1.50Å)	Xtriage
Refinement program	BUSTER 2.10.2	Depositor
R, R_{free}	0.194 , 0.211 0.200 , 0.217	Depositor DCC
R_{free} test set	16515 reflections (4.71%)	wwPDB-VP
Wilson B-factor (Å ²)	18.7	Xtriage
Anisotropy	0.035	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 31.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	16845	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.37% 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: FLC, MES

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	0.82	0/2055	1.03	1/2784 (0.0%)
1	B	0.82	0/2079	0.97	0/2813
1	C	0.81	1/2031 (0.0%)	1.02	0/2752
1	D	0.81	1/2047 (0.0%)	1.01	1/2774 (0.0%)
1	E	0.87	0/1407	1.07	3/1903 (0.2%)
1	F	0.81	1/2084 (0.0%)	1.06	3/2824 (0.1%)
1	G	0.82	1/2040 (0.0%)	0.99	0/2764
1	H	0.80	0/2038	0.95	0/2761
All	All	0.82	4/15781 (0.0%)	1.01	8/21375 (0.0%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	463	MET	SD-CE	-6.74	1.62	1.79
1	F	472	ILE	CA-CB	6.33	1.57	1.54
1	D	551	MET	SD-CE	-5.59	1.65	1.79
1	C	472	ILE	CA-CB	5.59	1.57	1.54

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	350	MET	N-CA-C	-6.29	99.77	109.76
1	E	456	ASN	CB-CA-C	6.08	121.18	110.85
1	E	423	PHE	CA-CB-CG	-5.49	108.31	113.80
1	F	466	GLU	CB-CG-CD	5.18	121.41	112.60
1	E	361	ASP	CA-CB-CG	5.09	117.69	112.60
1	A	398	THR	N-CA-C	-5.08	104.16	110.41
1	D	423	PHE	CA-CB-CG	-5.07	108.73	113.80
1	F	499	PRO	N-CA-C	5.02	118.93	111.41

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	2011	0	2023	10	0
1	B	2035	0	2048	3	0
1	C	1988	0	2003	5	0
1	D	2003	0	2012	10	0
1	E	1379	0	1368	8	0
1	F	2039	0	2044	14	0
1	G	1997	0	2003	1	0
1	H	1995	0	2002	5	0
2	A	13	0	5	0	0
2	B	13	0	5	0	0
2	E	13	0	5	0	0
2	F	13	0	5	0	0
2	G	13	0	5	0	0
2	H	13	0	5	0	0
3	C	24	0	26	0	0
3	E	12	0	13	0	0
4	A	140	0	0	0	0
4	B	201	0	0	2	0
4	C	142	0	0	0	0
4	D	159	0	0	2	0
4	E	97	0	0	1	0
4	F	168	0	0	2	0
4	G	202	0	0	0	0
4	H	175	0	0	0	0
All	All	16845	0	15572	44	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 1.

All (44) 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:D:558[B]:HIS:NE2	1:F:581:ASN:OD1	2.16	0.78
1:D:417:PRO:HG3	1:F:357:THR:HG21	1.69	0.75
1:D:558[B]:HIS:HD2	4:D:788:HOH:O	1.68	0.74
1:E:455:THR:HG22	1:E:560:LEU:HB2	1.74	0.69
1:F:492:ARG:NH1	4:F:1101:HOH:O	2.14	0.68
1:C:417:PRO:HG3	1:E:357:THR:HG21	1.75	0.68
1:A:393:ASN:ND2	1:A:395:LYS:HZ2	1.95	0.64
1:A:393:ASN:ND2	1:A:395:LYS:NZ	2.48	0.62
1:D:558[B]:HIS:HE1	1:F:577:ILE:O	1.87	0.57
1:A:516:LEU:HD11	1:A:553:LEU:HD21	1.87	0.56
1:D:558[B]:HIS:CD2	4:D:788:HOH:O	2.51	0.54
1:D:558[B]:HIS:CD2	1:D:558[B]:HIS:H	2.25	0.54
1:D:558[B]:HIS:CE1	1:F:577:ILE:HG23	2.44	0.53
1:E:568:ARG:HD2	4:E:1151:HOH:O	2.08	0.53
1:E:454:VAL:HG22	1:E:543:ASP:HA	1.91	0.52
1:D:462:LYS:HB2	1:D:551:MET:HG2	1.96	0.48
1:F:376:GLU:HB3	1:H:604:VAL:HG22	1.94	0.48
1:F:376:GLU:HB3	1:H:604:VAL:CG2	2.44	0.48
1:A:516:LEU:HD11	1:A:553:LEU:CD2	2.44	0.47
1:C:464:ALA:HB1	1:C:523:TYR:CE1	2.50	0.47
1:F:510:ILE:HG21	1:F:518:THR:HG21	1.96	0.46
1:A:464:ALA:HB1	1:A:523:TYR:CE1	2.51	0.45
1:A:411:ILE:HG21	1:A:506:LEU:HD11	1.98	0.45
1:A:418:ALA:HB2	1:E:594:ILE:HD11	1.98	0.45
1:E:455:THR:HG22	1:E:560:LEU:CB	2.46	0.44
1:B:455:THR:HG21	4:B:1110:HOH:O	2.17	0.44
1:D:558[B]:HIS:CE1	1:F:581:ASN:OD1	2.70	0.44
1:A:510:ILE:HG21	1:A:518:THR:HG21	1.99	0.44
1:E:455:THR:HG23	1:E:561:ASN:N	2.32	0.43
1:F:531:THR:HB	1:F:538[B]:LEU:HD23	2.00	0.43
1:A:351:VAL:HG11	1:C:592:TYR:CD1	2.53	0.42
1:H:454:VAL:HG12	1:H:560:LEU:HB3	2.02	0.42
4:B:1255:HOH:O	1:C:481:LYS:HE3	2.19	0.42
1:C:551:MET:SD	1:C:560:LEU:HD11	2.59	0.42
1:A:501:GLN:HB3	1:G:366:GLU:HB3	2.02	0.41
1:B:510:ILE:HG21	1:B:518:THR:HG21	2.02	0.41
1:F:492:ARG:HG2	4:F:1212:HOH:O	2.20	0.41
1:F:393:ASN:OD1	1:F:556:PRO:HD3	2.20	0.41
1:F:401:GLU:HG2	1:F:553:LEU:HD22	2.02	0.41
1:B:464:ALA:HB1	1:B:523:TYR:CE1	2.55	0.41
1:D:464:ALA:HB1	1:D:523:TYR:CE1	2.55	0.41
1:H:510:ILE:HG21	1:H:518:THR:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:401:GLU:HG2	1:E:553:LEU:HD22	2.02	0.40
1:F:394:LYS:HB3	1:H:599:LYS:HE3	2.02	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	258/279 (92%)	254 (98%)	4 (2%)	0	100	100
1	B	261/279 (94%)	257 (98%)	4 (2%)	0	100	100
1	C	255/279 (91%)	251 (98%)	4 (2%)	0	100	100
1	D	257/279 (92%)	253 (98%)	4 (2%)	0	100	100
1	E	176/279 (63%)	176 (100%)	0	0	100	100
1	F	261/279 (94%)	257 (98%)	4 (2%)	0	100	100
1	G	256/279 (92%)	253 (99%)	3 (1%)	0	100	100
1	H	256/279 (92%)	253 (99%)	3 (1%)	0	100	100
All	All	1980/2232 (89%)	1954 (99%)	26 (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	218/234 (93%)	216 (99%)	2 (1%)	70	49
1	B	221/234 (94%)	221 (100%)	0	100	100
1	C	215/234 (92%)	215 (100%)	0	100	100
1	D	217/234 (93%)	216 (100%)	1 (0%)	81	66
1	E	146/234 (62%)	144 (99%)	2 (1%)	59	33
1	F	221/234 (94%)	220 (100%)	1 (0%)	81	66
1	G	216/234 (92%)	215 (100%)	1 (0%)	81	66
1	H	216/234 (92%)	216 (100%)	0	100	100
All	All	1670/1872 (89%)	1663 (100%)	7 (0%)	84	71

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	395	LYS
1	A	555	PHE
1	D	351	VAL
1	E	459	LYS
1	E	542	VAL
1	F	349	HIS
1	G	406	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (17) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	393	ASN
1	A	512	ASN
1	A	537	ASN
1	B	482	ASN
1	B	537	ASN
1	C	537	ASN
1	C	583	ASN
1	D	482	ASN
1	D	561	ASN
1	D	579	GLN
1	F	482	ASN
1	F	498	ASN
1	G	482	ASN
1	G	537	ASN
1	G	580	ASN

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Mol	Chain	Res	Type
1	H	512	ASN
1	H	537	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

9 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	FLC	B	1000	-	12,12,12	1.00	0	17,17,17	1.69	5 (29%)
2	FLC	G	1000	-	12,12,12	1.12	0	17,17,17	1.65	5 (29%)
3	MES	C	1001	-	12,12,12	0.79	0	15,16,16	0.63	0
2	FLC	A	1000	-	12,12,12	1.03	0	17,17,17	1.60	5 (29%)
3	MES	E	1001	-	12,12,12	0.82	0	15,16,16	0.77	1 (6%)
2	FLC	F	1000	-	12,12,12	1.02	0	17,17,17	1.27	1 (5%)
3	MES	C	1002	-	12,12,12	0.72	0	15,16,16	0.24	0
2	FLC	E	1000	-	12,12,12	1.00	0	17,17,17	1.65	5 (29%)
2	FLC	H	1000	-	12,12,12	1.08	0	17,17,17	1.57	5 (29%)

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	FLC	B	1000	-	-	6/16/16/16	-
2	FLC	G	1000	-	-	5/16/16/16	-
3	MES	C	1001	-	-	0/6/14/14	0/1/1/1
2	FLC	A	1000	-	-	5/16/16/16	-
3	MES	E	1001	-	-	3/6/14/14	0/1/1/1
2	FLC	F	1000	-	-	7/16/16/16	-
3	MES	C	1002	-	-	0/6/14/14	0/1/1/1
2	FLC	E	1000	-	-	9/16/16/16	-
2	FLC	H	1000	-	-	5/16/16/16	-

There are no bond length outliers.

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1000	FLC	CG-CB-CBC	-3.32	102.70	110.03
2	G	1000	FLC	CG-CB-CBC	-3.18	103.01	110.03
2	A	1000	FLC	CG-CB-CBC	-2.90	103.62	110.03
2	E	1000	FLC	CG-CB-CBC	-2.70	104.05	110.03
2	H	1000	FLC	OB1-CBC-CB	-2.65	116.96	122.09
2	G	1000	FLC	OB1-CBC-CB	-2.63	117.00	122.09
2	B	1000	FLC	CB-CA-CAC	2.60	121.04	113.92
2	H	1000	FLC	CG-CB-CBC	-2.58	104.33	110.03
2	B	1000	FLC	OB1-CBC-CB	-2.52	117.20	122.09
2	E	1000	FLC	OB1-CBC-CB	-2.52	117.22	122.09
2	H	1000	FLC	OB2-CBC-CB	2.48	117.89	113.14
2	A	1000	FLC	OB1-CBC-CB	-2.47	117.30	122.09
2	B	1000	FLC	OB2-CBC-CB	2.37	117.68	113.14
2	A	1000	FLC	OB2-CBC-CB	2.32	117.58	113.14
2	F	1000	FLC	OA1-CAC-CA	-2.31	116.40	122.95
2	A	1000	FLC	CB-CA-CAC	2.29	120.18	113.92
2	E	1000	FLC	OG1-CGC-CG	-2.27	116.52	122.95
2	G	1000	FLC	OB2-CBC-CB	2.23	117.42	113.14
2	H	1000	FLC	CB-CA-CAC	2.19	119.91	113.92
2	A	1000	FLC	CA-CB-CBC	2.16	114.81	110.03
2	E	1000	FLC	OB2-CBC-CB	2.15	117.26	113.14
2	E	1000	FLC	CB-CA-CAC	2.14	119.76	113.92
2	G	1000	FLC	CA-CB-CBC	2.07	114.62	110.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	1000	FLC	CA-CB-CBC	2.06	114.58	110.03
2	G	1000	FLC	CB-CA-CAC	2.05	119.52	113.92
3	E	1001	MES	C7-N4-C3	2.02	116.62	111.24
2	B	1000	FLC	OG1-CGC-CG	-2.01	117.26	122.95

There are no chirality outliers.

All (40) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1000	FLC	CA-CB-CBC-OB2
2	B	1000	FLC	CA-CB-CBC-OB2
2	E	1000	FLC	CA-CB-CBC-OB1
2	E	1000	FLC	OHB-CB-CBC-OB1
2	F	1000	FLC	CAC-CA-CB-OHB
2	G	1000	FLC	CA-CB-CBC-OB2
2	H	1000	FLC	CA-CB-CBC-OB2
3	E	1001	MES	C7-C8-S-O2S
2	F	1000	FLC	CAC-CA-CB-CG
3	E	1001	MES	C7-C8-S-O3S
2	E	1000	FLC	CA-CB-CBC-OB2
2	F	1000	FLC	CB-CG-CGC-OG1
2	F	1000	FLC	CB-CG-CGC-OG2
2	F	1000	FLC	CAC-CA-CB-CBC
2	A	1000	FLC	OHB-CB-CBC-OB2
2	B	1000	FLC	OHB-CB-CBC-OB2
2	G	1000	FLC	OHB-CB-CBC-OB2
2	H	1000	FLC	OHB-CB-CBC-OB2
3	E	1001	MES	C7-C8-S-O1S
2	A	1000	FLC	CG-CB-CBC-OB2
2	B	1000	FLC	CA-CB-CBC-OB1
2	B	1000	FLC	CG-CB-CBC-OB2
2	E	1000	FLC	CG-CB-CBC-OB2
2	F	1000	FLC	CG-CB-CBC-OB1
2	G	1000	FLC	CA-CB-CBC-OB1
2	G	1000	FLC	CG-CB-CBC-OB2
2	H	1000	FLC	CG-CB-CBC-OB2
2	E	1000	FLC	CB-CA-CAC-OA1
2	E	1000	FLC	CB-CA-CAC-OA2
2	A	1000	FLC	CA-CB-CBC-OB1
2	B	1000	FLC	CG-CB-CBC-OB1
2	G	1000	FLC	CG-CB-CBC-OB1
2	H	1000	FLC	CA-CB-CBC-OB1

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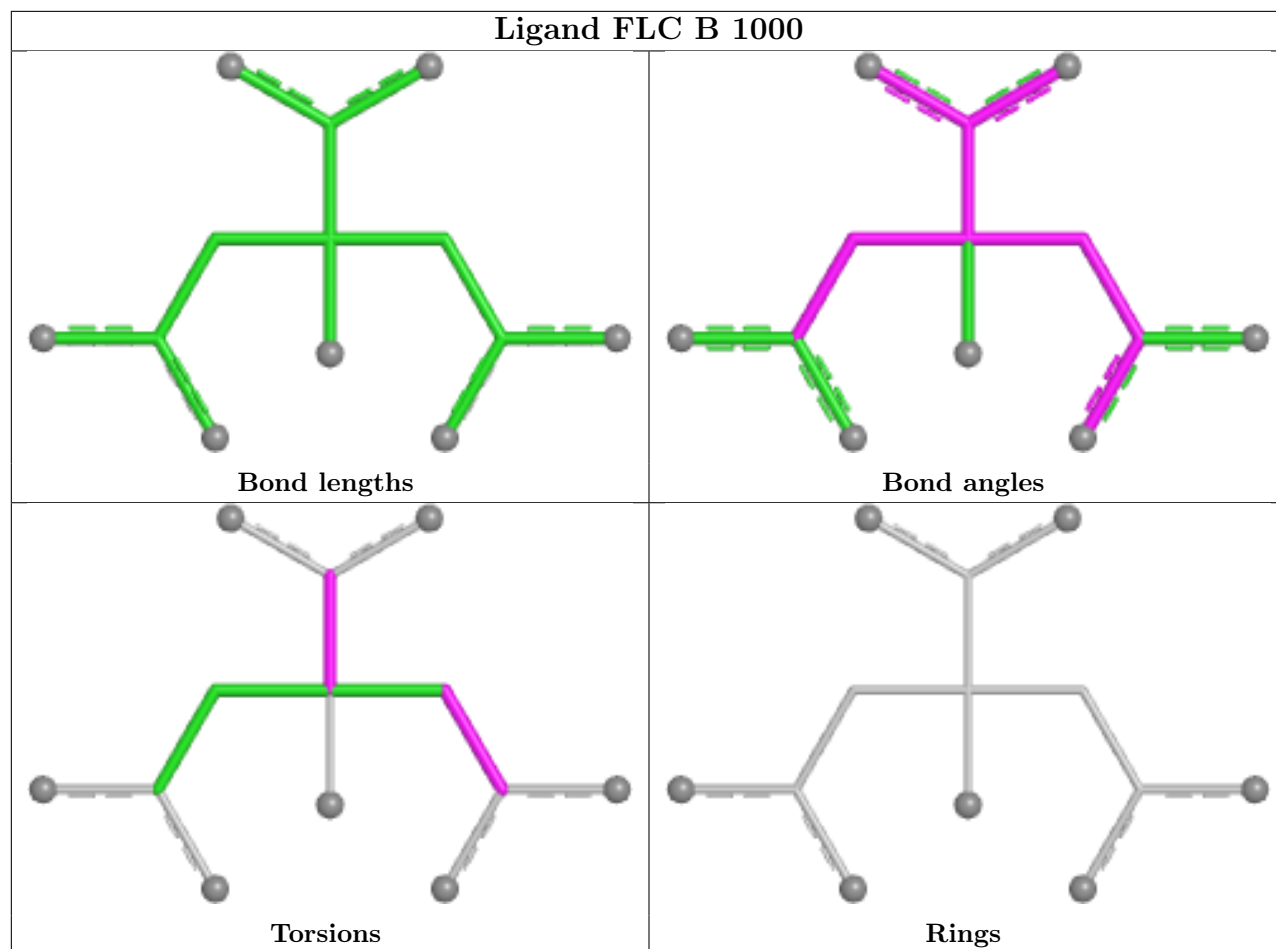
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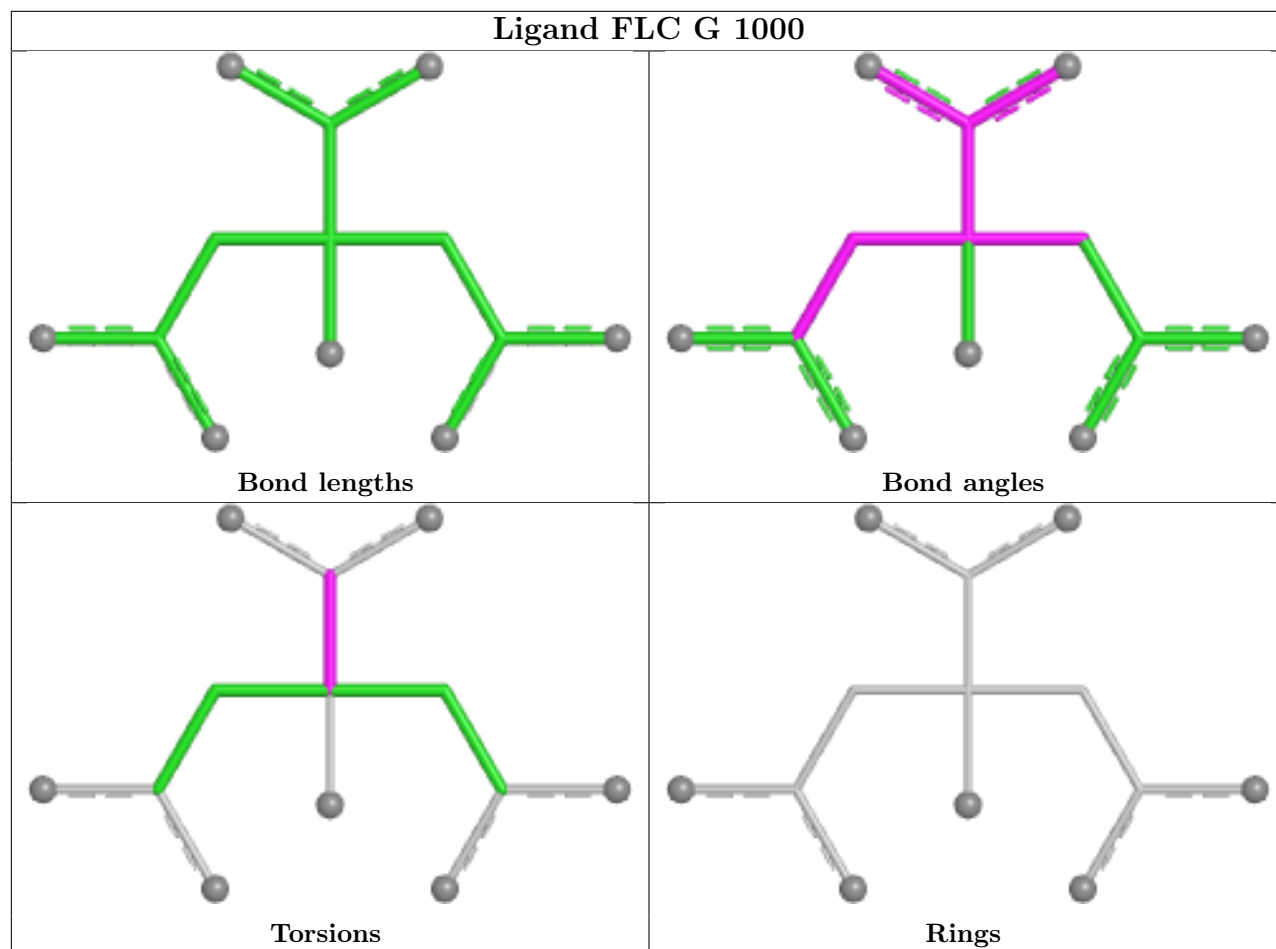
Mol	Chain	Res	Type	Atoms
2	F	1000	FLC	CA-CB-CBC-OB1
2	E	1000	FLC	OHB-CB-CBC-OB2
2	H	1000	FLC	CG-CB-CBC-OB1
2	E	1000	FLC	CB-CG-CGC-OG2
2	E	1000	FLC	CB-CG-CGC-OG1
2	B	1000	FLC	CB-CG-CGC-OG1
2	A	1000	FLC	CB-CG-CGC-OG1

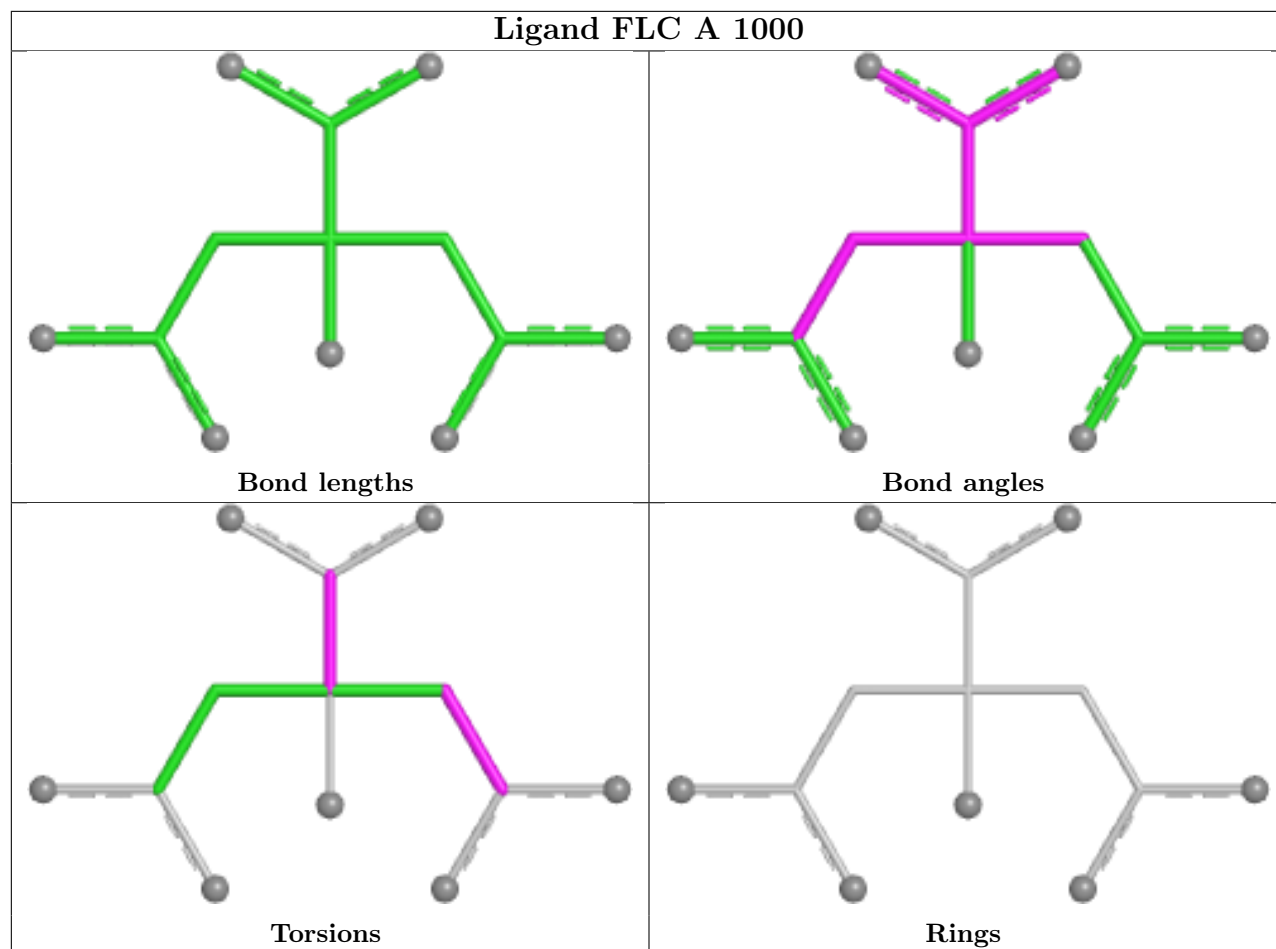
There are no ring outliers.

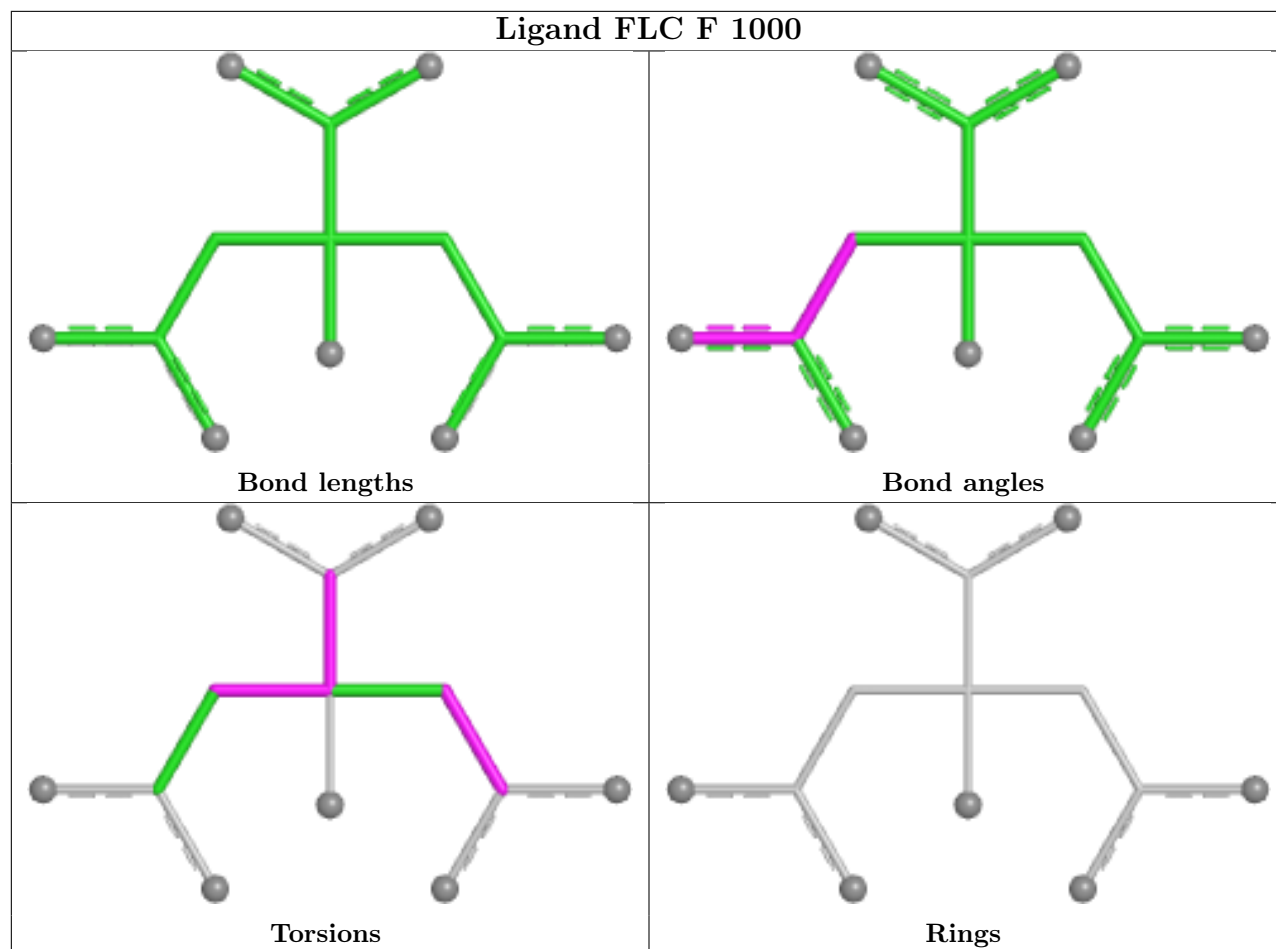
No monomer is involved in short contacts.

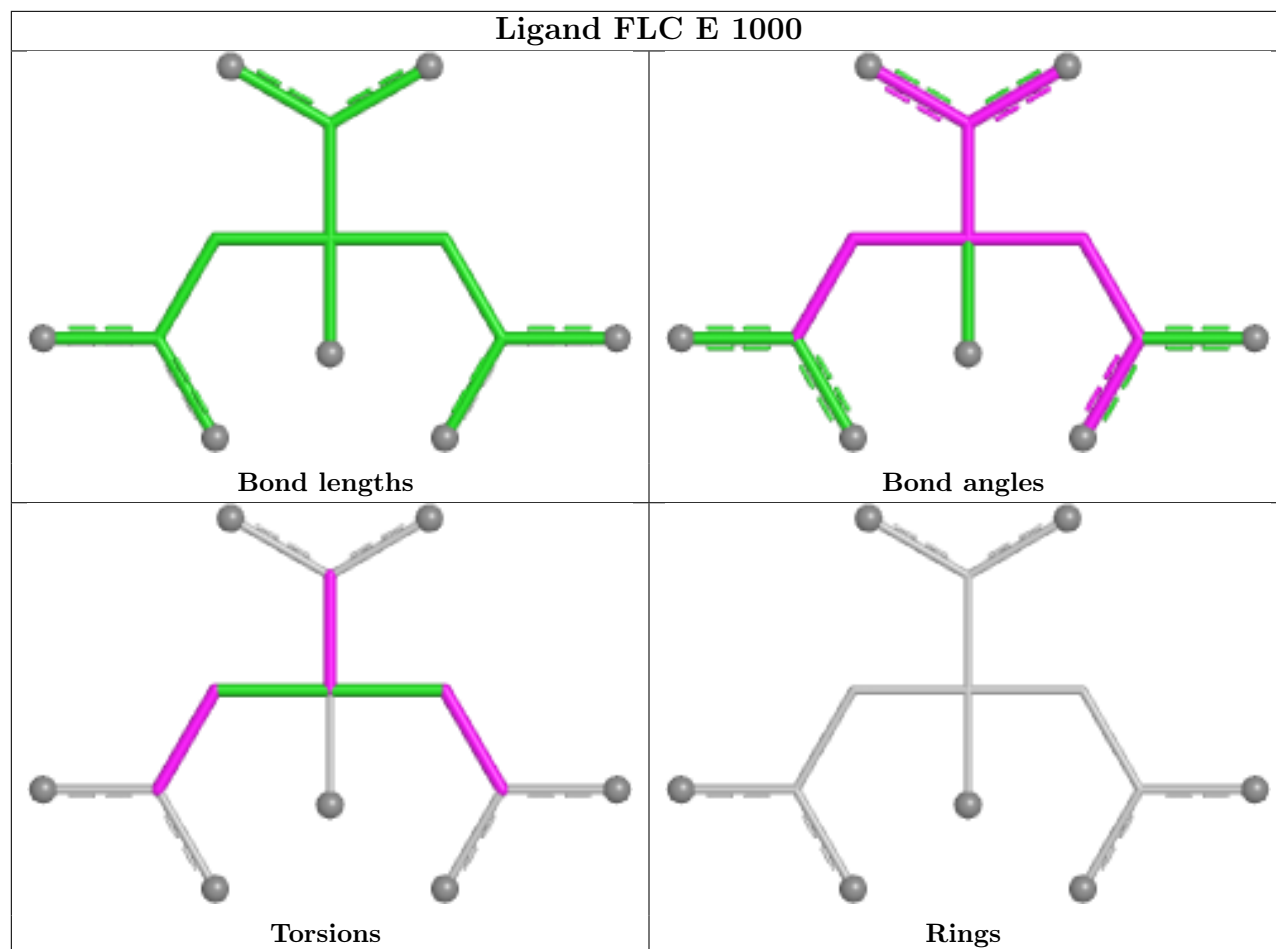
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.

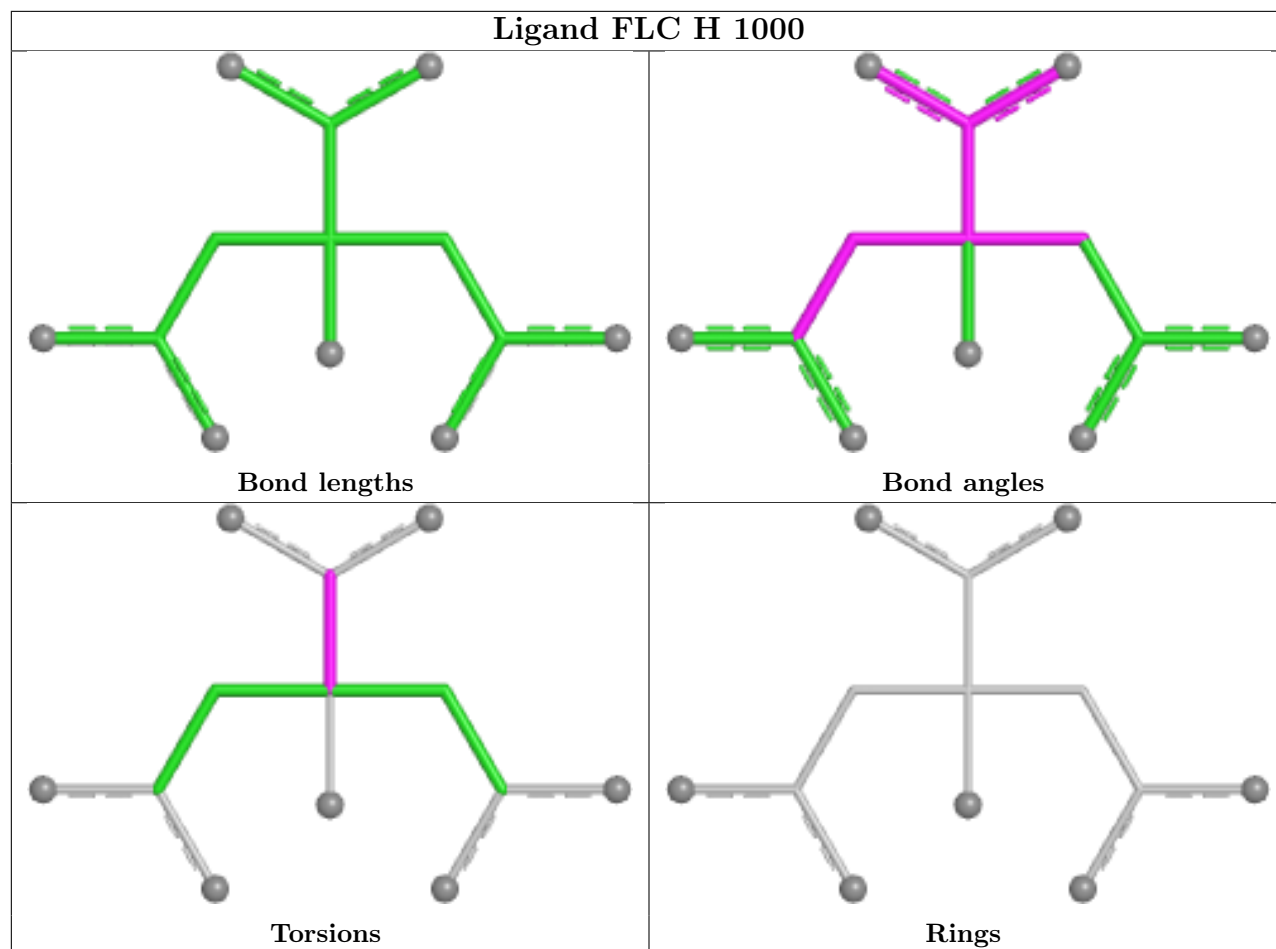












5.7 Other polymers [i](#)

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

6.1 Protein, DNA and RNA chains

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	260/279 (93%)	0.53	24 (9%) 14 15	13, 26, 52, 71	0
1	B	261/279 (93%)	0.05	5 (1%) 66 70	7, 21, 42, 72	2 (0%)
1	C	256/279 (91%)	0.51	18 (7%) 22 24	14, 27, 57, 89	1 (0%)
1	D	257/279 (92%)	0.62	32 (12%) 8 8	11, 25, 61, 88	2 (0%)
1	E	180/279 (64%)	0.56	22 (12%) 8 9	15, 24, 53, 82	0
1	F	260/279 (93%)	0.70	33 (12%) 8 8	9, 28, 59, 86	3 (1%)
1	G	256/279 (91%)	0.08	4 (1%) 70 74	11, 22, 40, 63	2 (0%)
1	H	256/279 (91%)	0.08	5 (1%) 65 68	8, 22, 40, 72	2 (0%)
All	All	1986/2232 (88%)	0.39	143 (7%) 21 23	7, 24, 53, 89	12 (0%)

All (143) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	351	VAL	6.8
1	E	461	PHE	6.0
1	E	542	VAL	5.9
1	E	607	LYS	5.3
1	E	453	ALA	4.9
1	F	348	SER	4.7
1	E	455	THR	4.6
1	F	496	VAL	4.6
1	D	493	VAL	4.5
1	D	607	LYS	4.4
1	E	457	ALA	4.1
1	E	555	PHE	4.1
1	E	452	GLY	4.0
1	A	516	LEU	4.0
1	F	493	VAL	4.0
1	F	469	PRO	4.0

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Mol	Chain	Res	Type	RSRZ
1	E	451	GLY	3.9
1	C	497	LYS	3.8
1	F	534	LYS	3.8
1	F	533	ALA	3.8
1	D	485	PRO	3.8
1	E	592	TYR	3.8
1	F	349	HIS	3.6
1	E	454	VAL	3.6
1	D	478	TRP	3.5
1	D	496	VAL	3.5
1	F	535	LYS	3.5
1	F	538[A]	LEU	3.5
1	C	496	VAL	3.4
1	A	481	LYS	3.4
1	D	497	LYS	3.4
1	A	348	SER	3.4
1	D	538	LEU	3.4
1	A	533	ALA	3.4
1	D	558[A]	HIS	3.3
1	H	607	LYS	3.3
1	C	493	VAL	3.3
1	A	472	ILE	3.2
1	F	607	LYS	3.2
1	F	532	THR	3.2
1	F	536	GLY	3.2
1	F	492	ARG	3.1
1	F	530	VAL	3.1
1	A	555	PHE	3.1
1	F	497	LYS	3.0
1	D	536	GLY	3.0
1	E	460	TYR	3.0
1	E	456	ASN	3.0
1	B	515	SER	2.9
1	D	535	LYS	2.9
1	E	545	THR	2.9
1	C	607	LYS	2.9
1	F	531	THR	2.9
1	B	516	LEU	2.9
1	D	492	ARG	2.8
1	B	608	LYS	2.8
1	D	534	LYS	2.8
1	H	481	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	592	TYR	2.8
1	C	352	GLU	2.8
1	D	494	LYS	2.8
1	E	543	ASP	2.8
1	E	554	ASP	2.8
1	E	544	GLY	2.8
1	G	352	GLU	2.7
1	F	491	HIS	2.7
1	D	469	PRO	2.7
1	F	470	ASN	2.7
1	G	607	LYS	2.7
1	D	533	ALA	2.6
1	E	550	LEU	2.6
1	F	557	VAL	2.6
1	C	494	LYS	2.6
1	C	533	ALA	2.6
1	A	607	LYS	2.6
1	F	516	LEU	2.6
1	D	480	LYS	2.6
1	E	349	HIS	2.5
1	C	499	PRO	2.5
1	F	486	VAL	2.5
1	C	535	LYS	2.5
1	D	511	LYS	2.5
1	F	456	ASN	2.5
1	C	534	LYS	2.5
1	D	539	ILE	2.4
1	D	491	HIS	2.4
1	C	492	ARG	2.4
1	F	495	SER	2.4
1	F	556	PRO	2.4
1	C	481	LYS	2.4
1	A	478	TRP	2.3
1	A	530	VAL	2.3
1	D	530	VAL	2.3
1	A	469	PRO	2.3
1	D	477	SER	2.3
1	F	553	LEU	2.3
1	F	498	ASN	2.3
1	A	351	VAL	2.3
1	A	465	VAL	2.3
1	D	532	THR	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	497	LYS	2.3
1	D	473	PRO	2.3
1	A	470	ASN	2.3
1	D	537	ASN	2.3
1	A	483	VAL	2.3
1	D	483	VAL	2.3
1	F	494	LYS	2.3
1	F	537	ASN	2.2
1	H	469	PRO	2.2
1	B	591	ASP	2.2
1	D	543	ASP	2.2
1	C	517	HIS	2.2
1	H	604	VAL	2.2
1	C	495	SER	2.2
1	C	538	LEU	2.2
1	H	470	ASN	2.2
1	C	485	PRO	2.2
1	A	534	LYS	2.2
1	F	376	GLU	2.2
1	G	472	ILE	2.2
1	B	592	TYR	2.2
1	E	348	SER	2.2
1	E	350	MET	2.2
1	E	553	LEU	2.1
1	A	473	PRO	2.1
1	D	499	PRO	2.1
1	D	489	ILE	2.1
1	D	460	TYR	2.1
1	A	515	SER	2.1
1	F	395	LYS	2.1
1	F	455	THR	2.1
1	F	539	ILE	2.1
1	A	475	PHE	2.1
1	A	553	LEU	2.1
1	C	511	LYS	2.1
1	G	481	LYS	2.1
1	F	554	ASP	2.1
1	D	481	LYS	2.0
1	A	523	TYR	2.0
1	A	379	SER	2.0
1	D	495	SER	2.0
1	C	500	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
1	A	468	TYR	2.0

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 oligosaccharides in this entry.

6.4 Ligands [i](#)

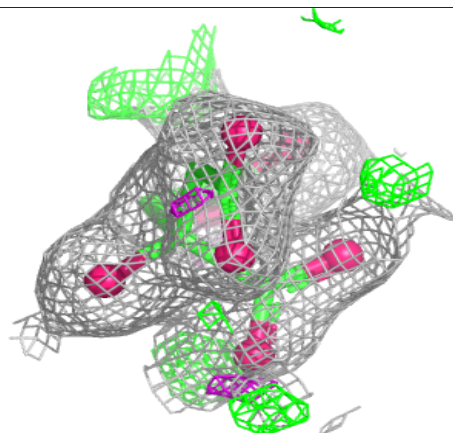
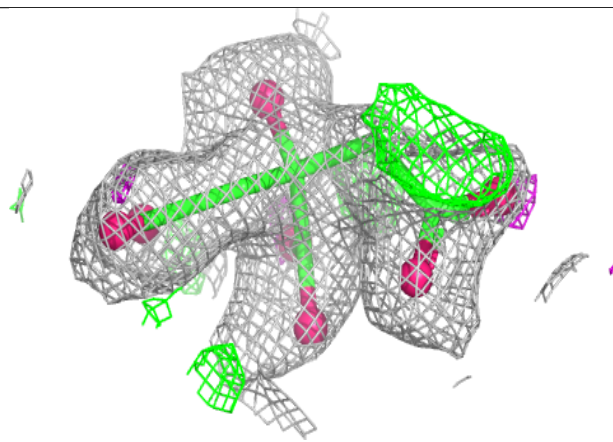
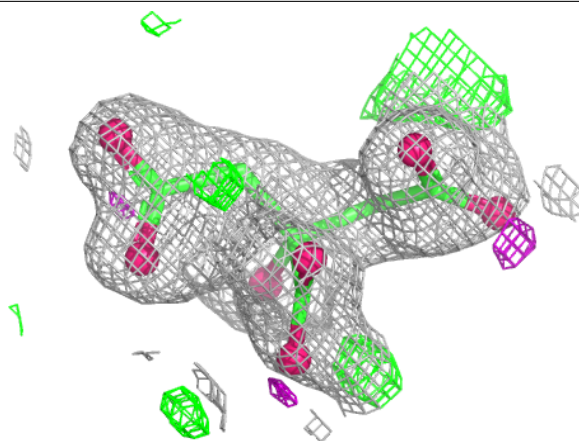
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	MES	C	1001	12/12	0.80	0.19	39,47,53,54	0
2	FLC	F	1000	13/13	0.84	0.13	30,39,46,47	0
2	FLC	E	1000	13/13	0.84	0.12	33,37,39,42	0
3	MES	C	1002	12/12	0.93	0.12	28,31,34,34	0
2	FLC	G	1000	13/13	0.95	0.07	17,19,23,24	0
2	FLC	A	1000	13/13	0.96	0.06	19,22,27,28	0
3	MES	E	1001	12/12	0.96	0.12	24,37,45,45	0
2	FLC	H	1000	13/13	0.97	0.06	18,19,23,24	0
2	FLC	B	1000	13/13	0.97	0.06	14,17,21,21	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.

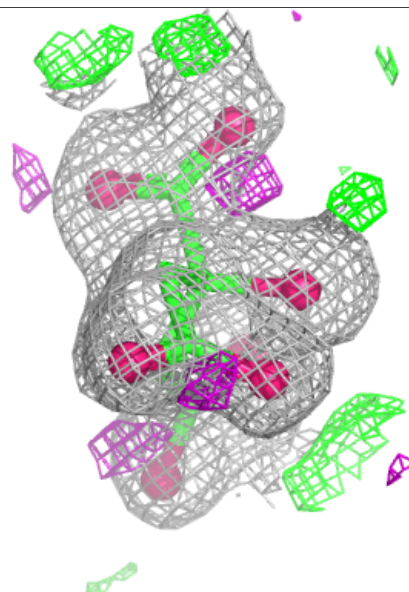
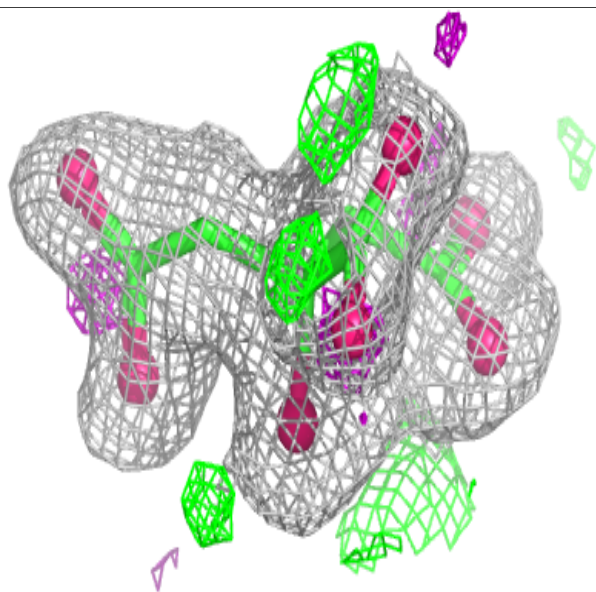
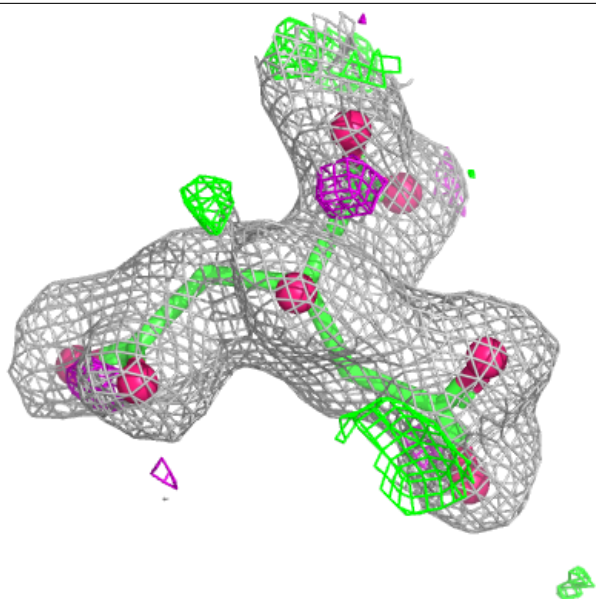
Electron density around FLC F 1000:

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



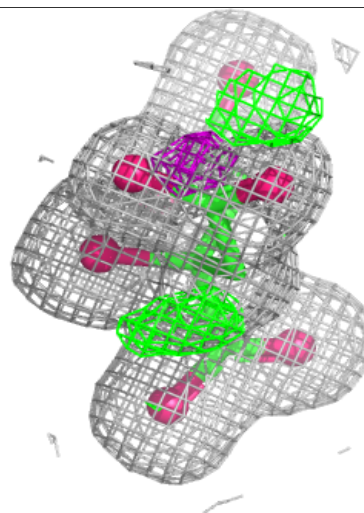
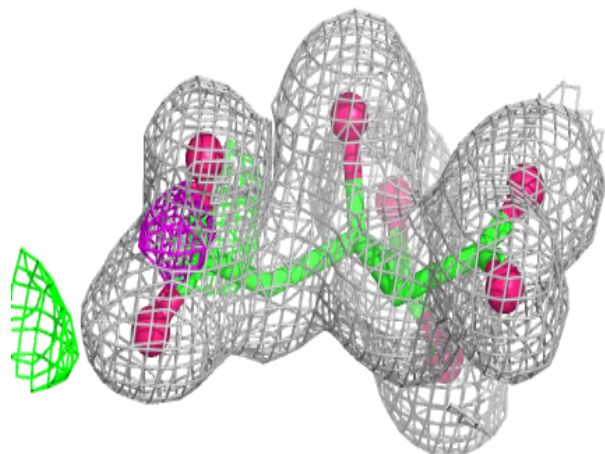
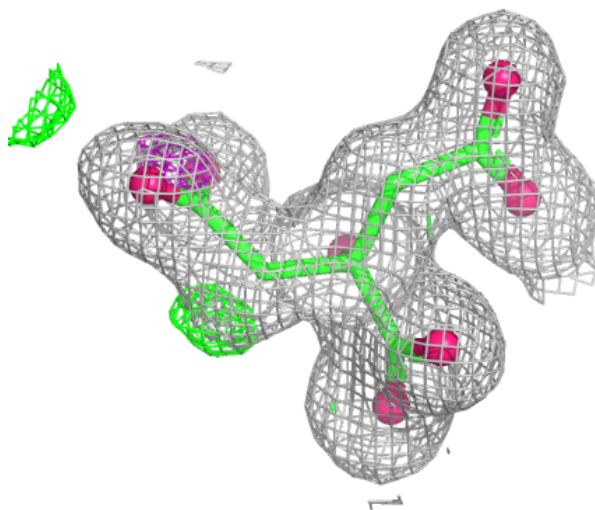
Electron density around FLC E 1000:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



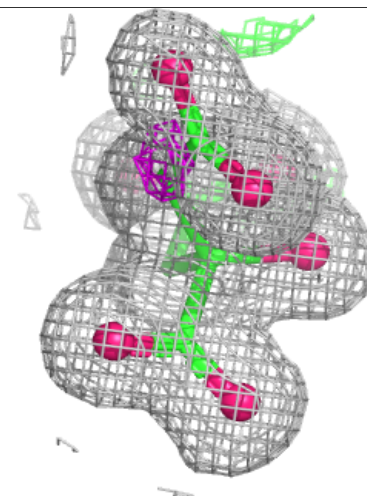
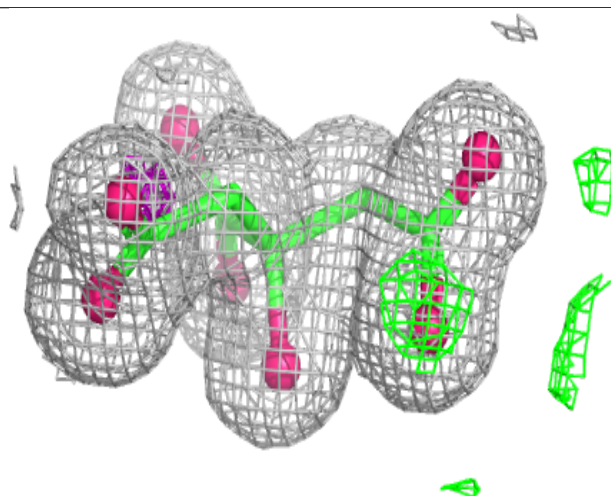
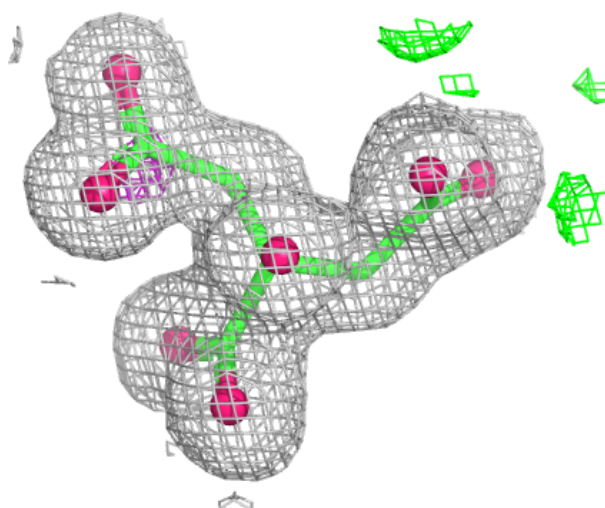
Electron density around FLC G 1000:

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



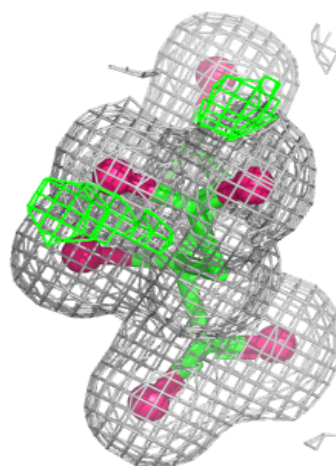
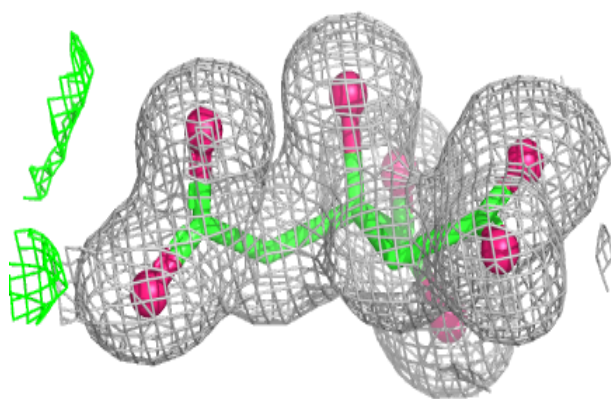
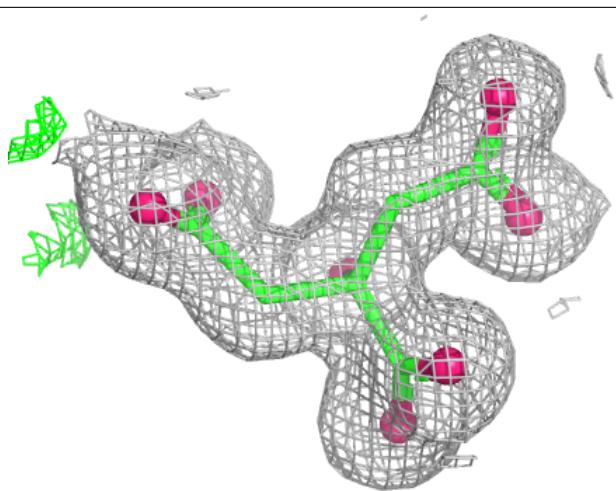
Electron density around FLC A 1000:

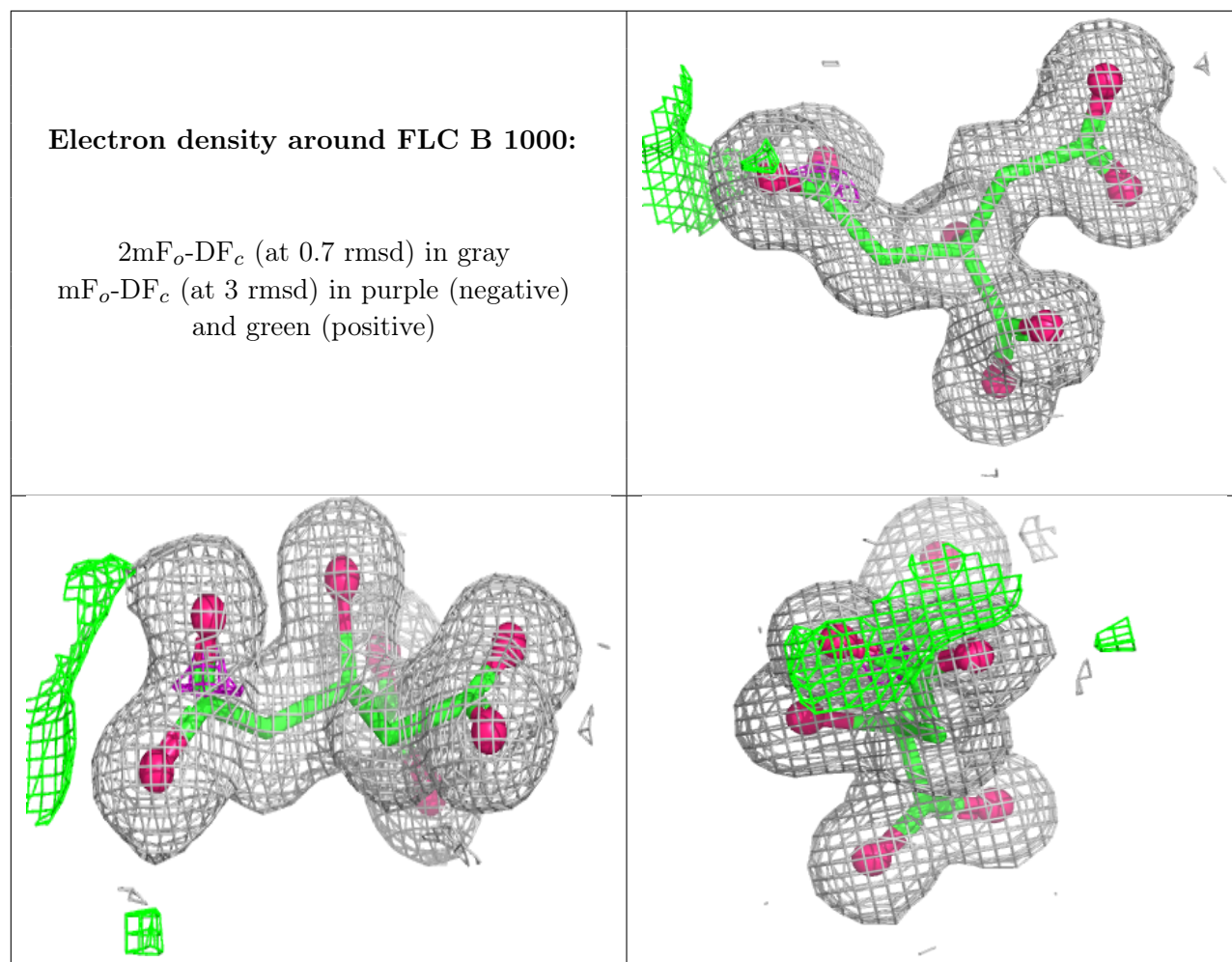
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around FLC H 1000:

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





6.5 Other polymers ⓘ

There are no such residues in this entry.