Full wwPDB X-ray Structure Validation Report ⓘ

May 7, 2026 – 10:08 AM EDT

PDB ID	:	13FR / pdb_000013fr
Title	:	Cholesterol complex of the START domain of Caenorhabditis elegans StAR-related lipid transfer protein 3 (STARD3)
Authors	:	Battista, B.; Sambrailo, A.; Biglione, F.A.; Lombardo, V.A.; Mansilla, M.C.; Albanesi, D.; Lisa, M.N.; de Mendoza, D.; Binolfi, A.
Deposited on	:	2026-05-04
Resolution	:	2.09 Å(reported)

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

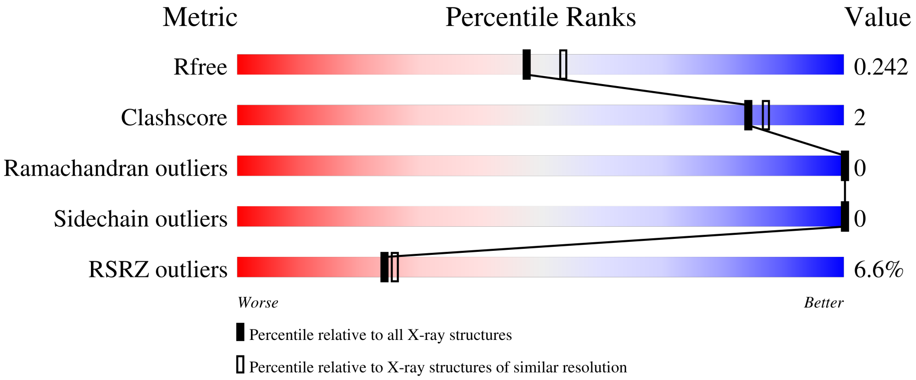
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal 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

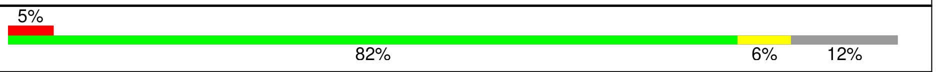
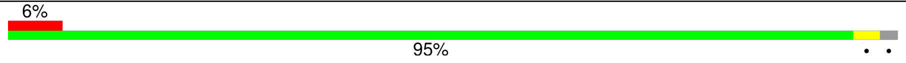
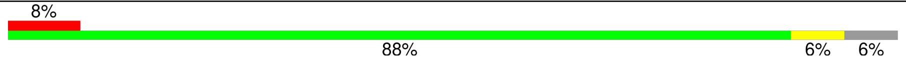
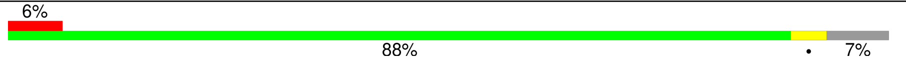
The reported resolution of this entry is 2.09 Å.

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	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	Quality of chain
1	A	228	
1	B	228	
1	C	228	
1	D	228	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 7417 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.

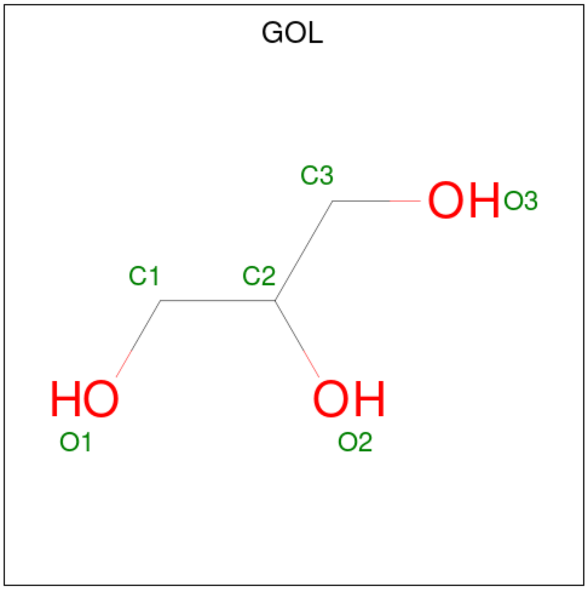
- Molecule 1 is a protein called START domain-containing protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	201	Total 1640	C 1047	N 283	O 300	S 10	0	0	0
1	B	224	Total 1821	C 1159	N 317	O 335	S 10	0	0	0
1	C	215	Total 1758	C 1122	N 306	O 319	S 11	0	2	0
1	D	211	Total 1723	C 1105	N 296	O 311	S 11	0	1	0

There are 4 discrepancies between the modelled and reference sequences:

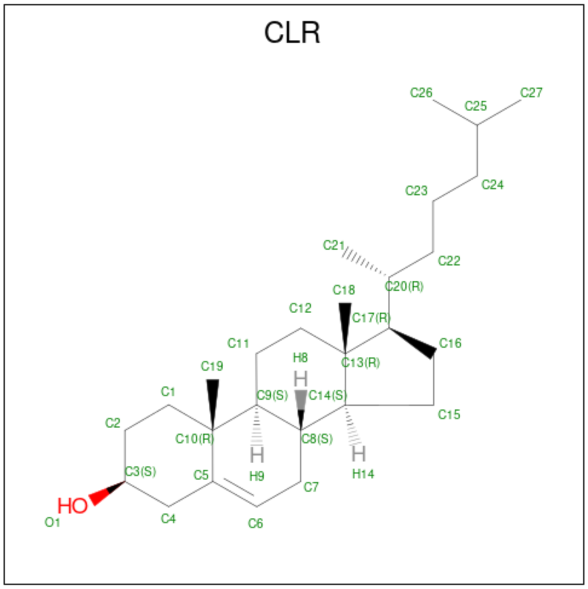
Chain	Residue	Modelled	Actual	Comment	Reference
A	220	GLY	-	expression tag	UNP Q19819
B	220	GLY	-	expression tag	UNP Q19819
C	220	GLY	-	expression tag	UNP Q19819
D	220	GLY	-	expression tag	UNP Q19819

- Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 6 3 3	0	0
2	B	1	Total C O 6 3 3	0	0
2	B	1	Total C O 6 3 3	0	0

- Molecule 3 is CHOLESTEROL (CCD ID: CLR) (formula: $C_{27}H_{46}O$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	C	1	Total C O 28 27 1	0	0
3	D	1	Total C O 28 27 1	0	0

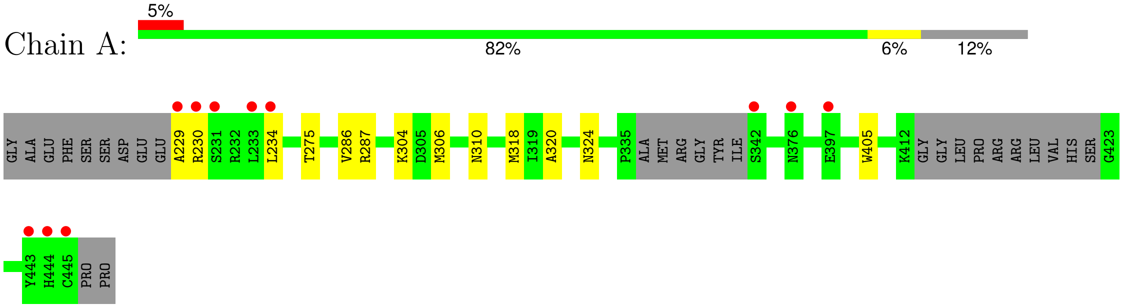
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	105	Total O 105 105	0	0
4	B	89	Total O 89 89	0	0
4	C	92	Total O 92 92	0	0
4	D	115	Total O 115 115	0	0

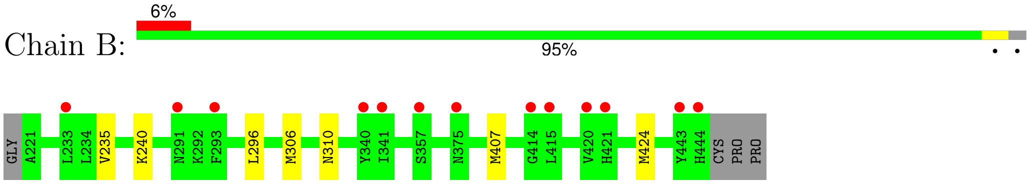
3 Residue-property plots ⓘ

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.

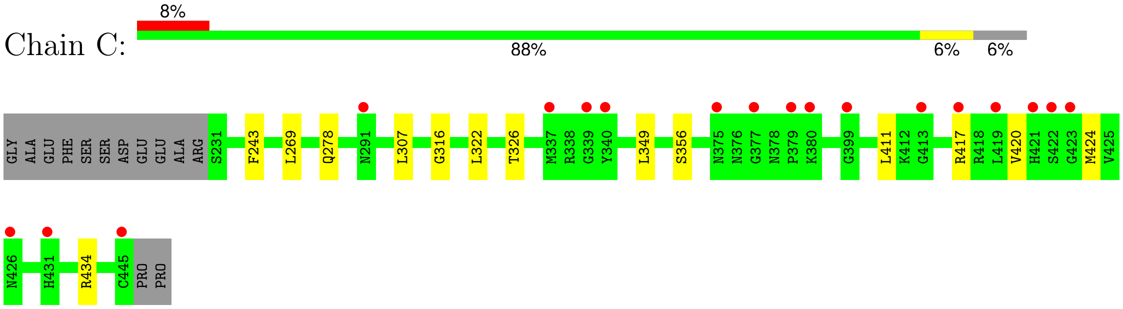
- Molecule 1: START domain-containing protein



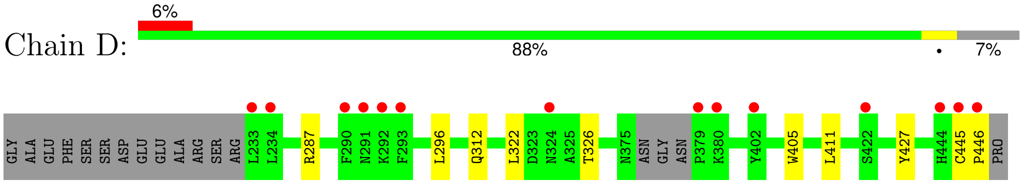
- Molecule 1: START domain-containing protein



- Molecule 1: START domain-containing protein



- Molecule 1: START domain-containing protein



4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	84.51Å 77.67Å 85.29Å 90.00° 116.17° 90.00°	Depositor
Resolution (Å)	29.37 – 2.09 29.37 – 2.09	Depositor EDS
% Data completeness (in resolution range)	97.4 (29.37-2.09) 97.3 (29.37-2.09)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	3.96 (at 2.10Å)	Xtriage
Refinement program	PHENIX 1.21.1_5286	Depositor
R, R_{free}	0.210 , 0.243 0.210 , 0.242	Depositor DCC
R_{free} test set	2822 reflections (4.80%)	wwPDB-VP
Wilson B-factor (Å^2)	33.1	Xtriage
Anisotropy	0.237	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.35 , 41.5	EDS
L-test for twinning[2]	$< \|L\| > = 0.50$, $< L^2 > = 0.34$	Xtriage
Estimated twinning fraction	0.000 for l,-k,h	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	7417	wwPDB-VP
Average B, all atoms (Å^2)	41.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 32.77 % 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 8.9053e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

---

[1] Intensities estimated from amplitudes.

[2] Theoretical 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.

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: CLR, GOL

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	0.15	0/1678	0.36	0/2267
1	B	0.15	0/1865	0.36	0/2521
1	C	0.15	0/1807	0.35	0/2444
1	D	0.16	0/1769	0.40	0/2392
All	All	0.15	0/7119	0.37	0/9624

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	1640	0	1617	8	0
1	B	1821	0	1792	4	0
1	C	1758	0	1743	9	0
1	D	1723	0	1711	8	0
2	A	6	0	8	0	0
2	B	12	0	16	0	0
3	C	28	0	46	4	0
3	D	28	0	46	4	0
4	A	105	0	0	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	89	0	0	0	0
4	C	92	0	0	3	0
4	D	115	0	0	2	0
All	All	7417	0	6979	32	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 2.

All (32) 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:B:407:MET:HE1	1:B:424:MET:HE1	1.75	0.69
1:A:230:ARG:HA	1:A:320:ALA:HA	1.78	0.65
1:B:306:MET:HE3	1:B:310:ASN:HB3	1.84	0.59
1:A:324:ASN:ND2	4:A:602:HOH:O	2.34	0.58
1:A:304:LYS:NZ	1:C:356:SER:OG	2.29	0.55
1:A:306:MET:HE3	1:A:310:ASN:HB3	1.89	0.55
1:C:417:ARG:NH2	4:C:605:HOH:O	2.40	0.54
1:B:296:LEU:HD11	1:D:296:LEU:HD11	1.91	0.53
1:D:445:CYS:SG	1:D:446:PRO:HD2	2.49	0.53
1:C:322:LEU:HD12	1:C:326:THR:HG22	1.90	0.52
1:D:405:TRP:HZ2	3:D:501:CLR:H151	1.76	0.51
1:C:434:ARG:NH1	4:C:607:HOH:O	2.43	0.50
1:A:229:ALA:HB3	1:A:234:LEU:HD23	1.92	0.50
1:C:420:VAL:HG12	1:C:424:MET:HE2	1.97	0.47
1:D:312:GLN:HG3	1:D:427:TYR:HE1	1.80	0.46
1:A:275:THR:HB	1:A:287:ARG:HB2	1.97	0.46
1:C:243:PHE:CG	1:C:349:LEU:HD21	2.51	0.46
3:D:501:CLR:H162	3:D:501:CLR:H221	1.42	0.46
1:C:269:LEU:HD11	1:C:278:GLN:HB2	1.98	0.46
1:A:318:MET:HE3	1:A:318:MET:HB2	1.75	0.45
1:D:322:LEU:HD12	1:D:326:THR:HG22	1.98	0.45
3:C:501:CLR:H221	3:C:501:CLR:H162	1.33	0.45
1:D:287:ARG:NH2	4:D:606:HOH:O	2.41	0.44
1:C:411:LEU:HD21	3:C:501:CLR:H213	2.00	0.43
1:A:286:VAL:HB	1:A:405:TRP:HB3	2.01	0.42
1:D:312:GLN:HG3	1:D:427:TYR:CE1	2.53	0.42
3:D:501:CLR:H71	4:D:678:HOH:O	2.19	0.42
1:B:235:VAL:O	1:B:240:LYS:HE3	2.19	0.42
3:C:501:CLR:H71	4:C:667:HOH:O	2.19	0.42
1:D:411:LEU:HD21	3:D:501:CLR:H213	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:501:CLR:H183	3:C:501:CLR:H20	1.91	0.41
1:C:307:LEU:HD21	1:C:316:GLY:HA3	2.03	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	195/228 (86%)	191 (98%)	4 (2%)	0	100	100
1	B	222/228 (97%)	218 (98%)	4 (2%)	0	100	100
1	C	215/228 (94%)	208 (97%)	7 (3%)	0	100	100
1	D	208/228 (91%)	202 (97%)	6 (3%)	0	100	100
All	All	840/912 (92%)	819 (98%)	21 (2%)	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	182/203 (90%)	182 (100%)	0	100	100
1	B	200/203 (98%)	200 (100%)	0	100	100
1	C	195/203 (96%)	195 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	191/203 (94%)	191 (100%)	0	100	100
All	All	768/812 (95%)	768 (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. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	436	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 ⓘ

5 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
2	GOL	B	501	-	5,5,5	0.35	0	5,5,5	0.56	0
3	CLR	C	501	-	31,31,31	0.42	0	48,48,48	0.97	2 (4%)
2	GOL	A	501	-	5,5,5	0.33	0	5,5,5	0.41	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	#|Z| > 2	Counts	RMSZ	#|Z| > 2
3	CLR	D	501	-	31,31,31	0.42	0	48,48,48	1.03	4 (8%)
2	GOL	B	502	-	5,5,5	0.34	0	5,5,5	0.49	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
2	GOL	B	501	-	-	2/4/4/4	-
3	CLR	C	501	-	-	10/10/68/68	0/4/4/4
2	GOL	A	501	-	-	2/4/4/4	-
3	CLR	D	501	-	-	8/10/68/68	0/4/4/4
2	GOL	B	502	-	-	0/4/4/4	-

There are no bond length outliers.

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	501	CLR	C17-C13-C14	2.39	102.84	100.10
3	C	501	CLR	C12-C13-C14	-2.35	103.73	107.25
3	D	501	CLR	C17-C13-C14	2.20	102.62	100.10
3	D	501	CLR	C1-C2-C3	2.07	113.22	110.48
3	D	501	CLR	C12-C13-C14	-2.02	104.22	107.25
3	D	501	CLR	C12-C11-C9	2.00	116.54	113.14

There are no chirality outliers.

All (22) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	501	GOL	O1-C1-C2-C3
2	B	501	GOL	O1-C1-C2-O2
2	B	501	GOL	O1-C1-C2-C3
3	C	501	CLR	C13-C17-C20-C21
3	D	501	CLR	C21-C20-C22-C23
3	C	501	CLR	C16-C17-C20-C21
3	C	501	CLR	C16-C17-C20-C22
3	C	501	CLR	C13-C17-C20-C22
3	D	501	CLR	C13-C17-C20-C22
3	C	501	CLR	C17-C20-C22-C23

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
3	D	501	CLR	C17-C20-C22-C23
3	C	501	CLR	C21-C20-C22-C23
3	D	501	CLR	C20-C22-C23-C24
3	C	501	CLR	C20-C22-C23-C24
3	C	501	CLR	C22-C23-C24-C25
3	D	501	CLR	C22-C23-C24-C25
3	D	501	CLR	C16-C17-C20-C22
3	D	501	CLR	C16-C17-C20-C21
3	D	501	CLR	C13-C17-C20-C21
2	A	501	GOL	O1-C1-C2-O2
3	C	501	CLR	C23-C24-C25-C27
3	C	501	CLR	C23-C24-C25-C26

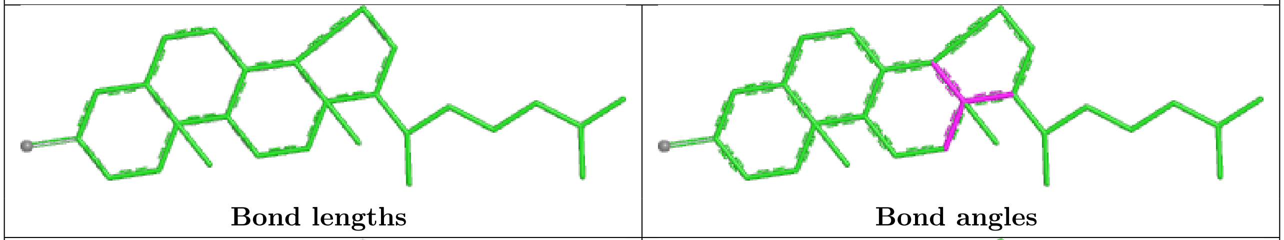
There are no ring outliers.

2 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	501	CLR	4	0
3	D	501	CLR	4	0

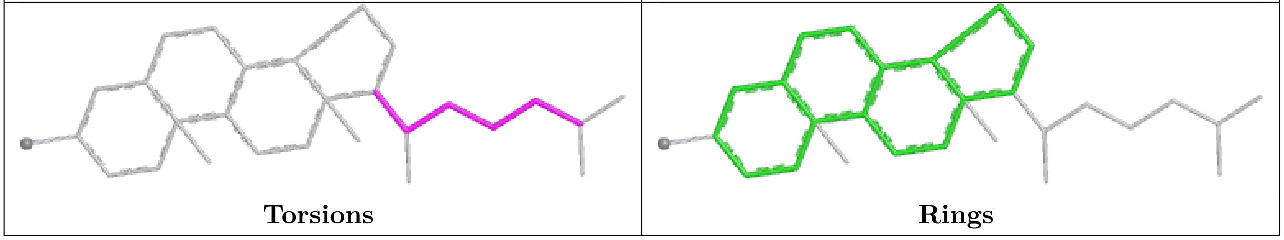
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

Ligand CLR C 501



Bond lengths

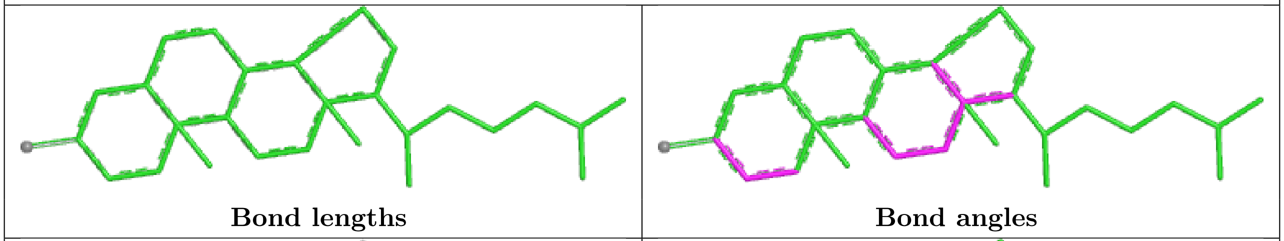
Bond angles



Torsions

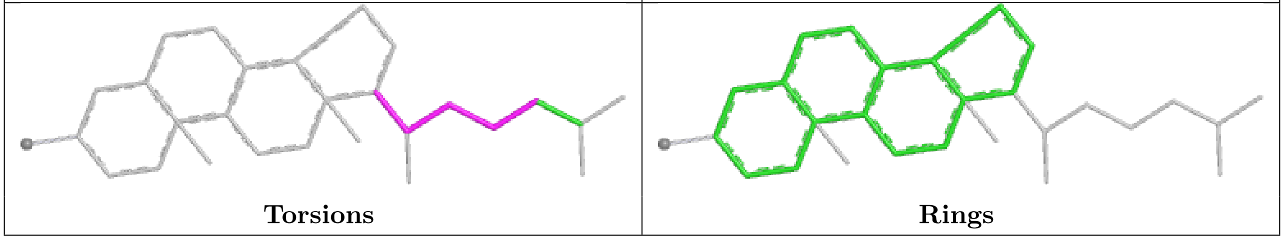
Rings

Ligand CLR D 501



Bond lengths

Bond angles



Torsions

Rings

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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	201/228 (88%)	0.34	11 (5%)	30	32	22, 37, 77, 105	0
1	B	224/228 (98%)	0.39	13 (5%)	29	30	22, 38, 67, 111	0
1	C	215/228 (94%)	0.42	18 (8%)	17	18	21, 37, 85, 144	2 (0%)
1	D	211/228 (92%)	0.20	14 (6%)	24	26	20, 33, 65, 116	1 (0%)
All	All	851/912 (93%)	0.34	56 (6%)	24	26	20, 37, 78, 144	3 (0%)

All (56) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	229	ALA	6.6
1	C	380	LYS	4.0
1	D	379	PRO	3.9
1	A	444	HIS	3.8
1	B	340	TYR	3.6
1	D	446	PRO	3.5
1	D	233	LEU	3.3
1	D	293	PHE	3.3
1	A	233	LEU	3.2
1	C	377	GLY	3.2
1	B	444	HIS	3.1
1	D	291	ASN	3.0
1	C	413	GLY	2.9
1	C	421	HIS	2.9
1	C	445	CYS	2.8
1	B	293	PHE	2.8
1	C	423	GLY	2.7
1	C	419	LEU	2.6
1	B	375	ASN	2.6
1	B	421	HIS	2.6
1	C	379	PRO	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	D	444	HIS	2.5
1	A	443	TYR	2.5
1	B	341	ILE	2.5
1	C	426	ASN	2.4
1	A	230	ARG	2.4
1	D	380	LYS	2.3
1	C	291	ASN	2.3
1	D	445	CYS	2.3
1	B	414	GLY	2.3
1	A	231	SER	2.2
1	B	357	SER	2.2
1	C	417	ARG	2.2
1	D	324	ASN	2.2
1	A	234	LEU	2.2
1	B	415	LEU	2.2
1	C	340	TYR	2.2
1	C	399	GLY	2.2
1	B	291	ASN	2.2
1	A	376	ASN	2.2
1	B	420	VAL	2.1
1	A	342	SER	2.1
1	B	443	TYR	2.1
1	C	431	HIS	2.1
1	B	233	LEU	2.1
1	D	292	LYS	2.1
1	C	337	MET	2.1
1	D	402	TYR	2.1
1	D	290	PHE	2.1
1	C	422	SER	2.1
1	C	375[A]	ASN	2.1
1	A	397	GLU	2.0
1	D	422	SER	2.1
1	D	234	LEU	2.0
1	A	445	CYS	2.0
1	C	339	GLY	2.0

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

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

6.3 Carbohydrates ⓘ

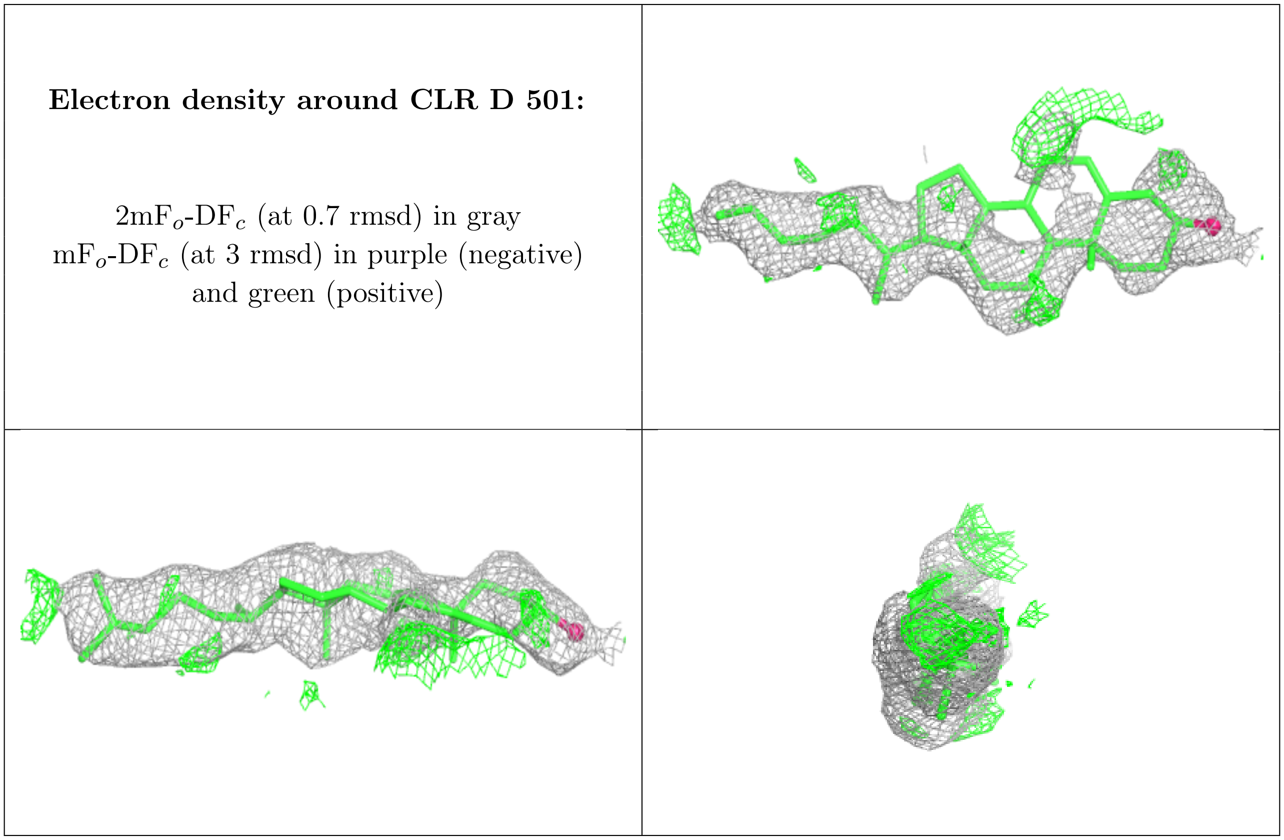
There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
3	CLR	D	501	28/28	0.73	0.23	47,63,80,85	0
2	GOL	B	502	6/6	0.78	0.15	44,47,51,62	0
3	CLR	C	501	28/28	0.83	0.19	47,63,75,76	0
2	GOL	B	501	6/6	0.90	0.11	30,37,41,41	0
2	GOL	A	501	6/6	0.90	0.12	39,44,47,57	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.

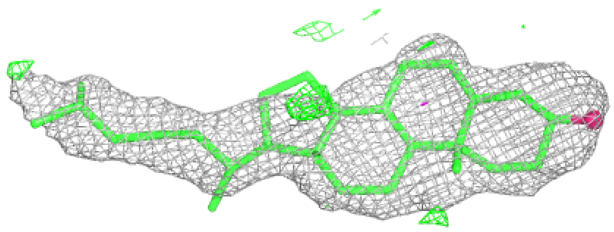


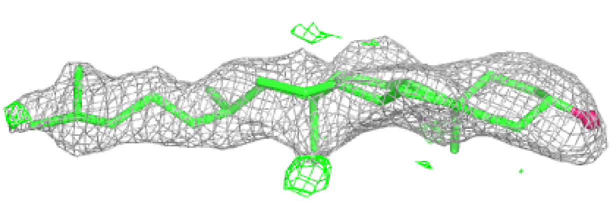
Electron density around CLR D 501:

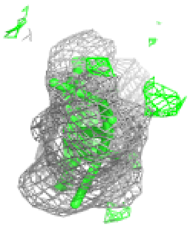
2mF$_o$-DF$_c$ (at 0.7 rmsd) in gray
mF$_o$-DF$_c$ (at 3 rmsd) in purple (negative)
and green (positive)

Electron density around CLR C 501:

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.