Full wwPDB X-ray Structure Validation Report (i)

Feb 15, 2024 – 08:43 AM EST

PDB ID	:	3PLZ
Title	:	Human LRH1 LBD bound to GR470
Authors	:	Williams, S.P.; Xu, R.; Zuercher, W.J.
Deposited on	:	2010-11-15
Resolution	:	1.75 Å(reported)

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

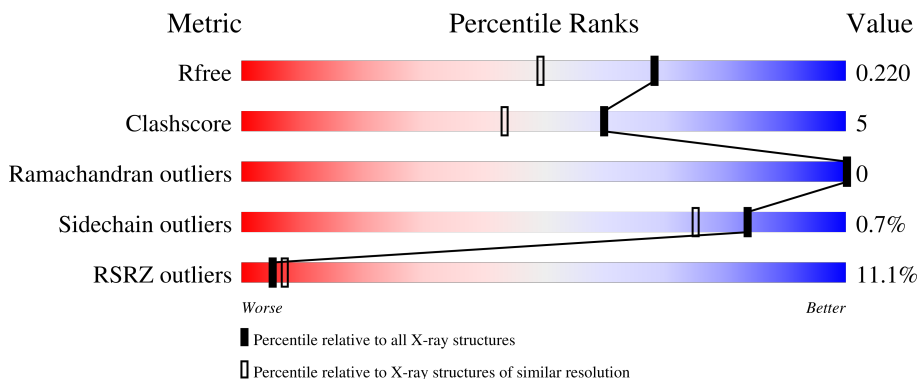|		
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

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 1.75 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	Percentile Ranks	Value
Rfree		0.220
Clashscore		5
Ramachandran outliers		0
Sidechain outliers		0.7%
RSRZ outliers		11.1%

Worse | | *Better*

■ Percentile relative to all X-ray structures
▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2340 (1.76-1.76)
Clashscore	141614	2466 (1.76-1.76)
Ramachandran outliers	138981	2437 (1.76-1.76)
Sidechain outliers	138945	2437 (1.76-1.76)
RSRZ outliers	127900	2298 (1.76-1.76)

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	257	13% / 84% / 5% / 10%
1	B	257	7% / 84% / 9% / 7%
2	C	14	14% / 71% / 14% / 14%
2	D	14	7% / 79% / 7% / 14%

2 Entry composition ⓘ

There are 5 unique types of molecules in this entry. The entry contains 4332 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 FTZ-F1 related protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	231	Total	C	N	O	S	0	5	0
			1852	1204	300	334	14			
1	B	240	Total	C	N	O	S	0	2	0
			1907	1231	318	345	13			

There are 30 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	285	MET	-	expression tag	UNP Q9UEC0
A	286	LYS	-	expression tag	UNP Q9UEC0
A	287	LYS	-	expression tag	UNP Q9UEC0
A	288	GLY	-	expression tag	UNP Q9UEC0
A	289	HIS	-	expression tag	UNP Q9UEC0
A	290	HIS	-	expression tag	UNP Q9UEC0
A	291	HIS	-	expression tag	UNP Q9UEC0
A	292	HIS	-	expression tag	UNP Q9UEC0
A	293	HIS	-	expression tag	UNP Q9UEC0
A	294	HIS	-	expression tag	UNP Q9UEC0
A	295	LEU	-	expression tag	UNP Q9UEC0
A	296	VAL	-	expression tag	UNP Q9UEC0
A	297	PRO	-	expression tag	UNP Q9UEC0
A	298	ARG	-	expression tag	UNP Q9UEC0
A	299	GLY	-	expression tag	UNP Q9UEC0
B	285	MET	-	expression tag	UNP Q9UEC0
B	286	LYS	-	expression tag	UNP Q9UEC0
B	287	LYS	-	expression tag	UNP Q9UEC0
B	288	GLY	-	expression tag	UNP Q9UEC0
B	289	HIS	-	expression tag	UNP Q9UEC0
B	290	HIS	-	expression tag	UNP Q9UEC0
B	291	HIS	-	expression tag	UNP Q9UEC0
B	292	HIS	-	expression tag	UNP Q9UEC0
B	293	HIS	-	expression tag	UNP Q9UEC0
B	294	HIS	-	expression tag	UNP Q9UEC0

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Chain	Residue	Modelled	Actual	Comment	Reference
B	295	LEU	-	expression tag	UNP Q9UEC0
B	296	VAL	-	expression tag	UNP Q9UEC0
B	297	PRO	-	expression tag	UNP Q9UEC0
B	298	ARG	-	expression tag	UNP Q9UEC0
B	299	GLY	-	expression tag	UNP Q9UEC0

- Molecule 2 is a protein called Nuclear receptor coactivator 2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	C	12	Total 99	C 65	N 18	O 16	0	0	0
2	D	12	Total 103	C 67	N 18	O 18	0	0	0

- Molecule 3 is (3aS,6aR)-5-[(4E)-oct-4-en-4-yl]-N,4-diphenyl-2,3,6,6a-tetrahydropentalen-3a(1H)-amine (three-letter code: 470) (formula: $C_{28}H_{35}N$).
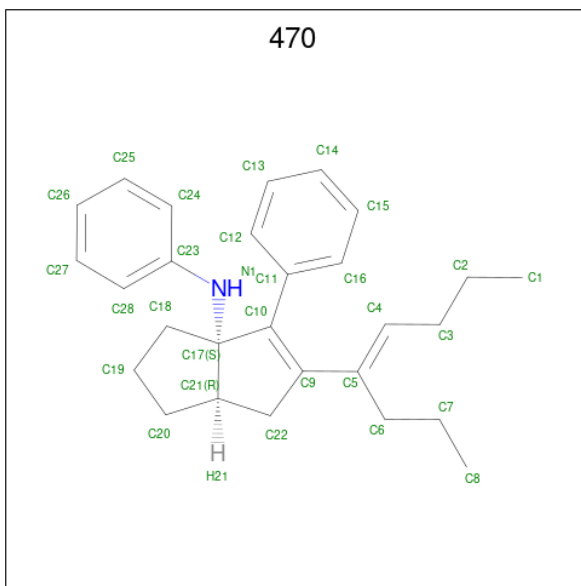
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total 29	C 28	N 1	0	0
3	B	1	Total 29	C 28	N 1	0	0

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).

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

• Molecule 5 is water.

| Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	137	Total O 137 137		0	0
5	C	10	Total O 10 10		0	0
5	B	148	Total O 148 148		0	0
5	D	10	Total O 10 10		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.
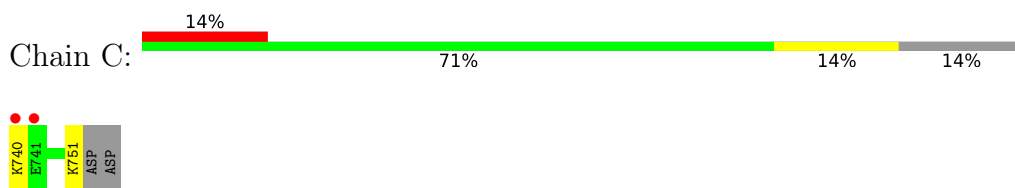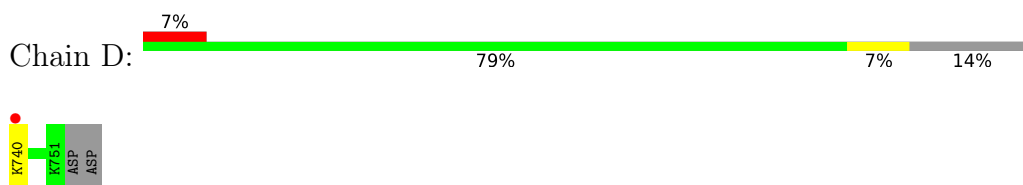
- Molecule 1: FTZ-F1 related protein
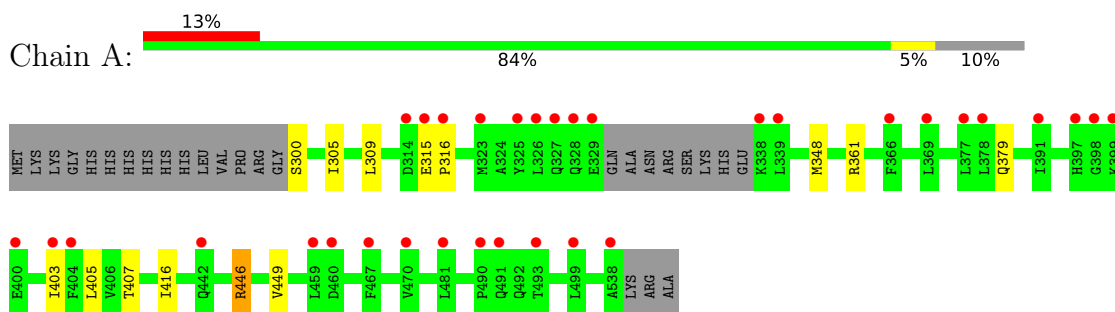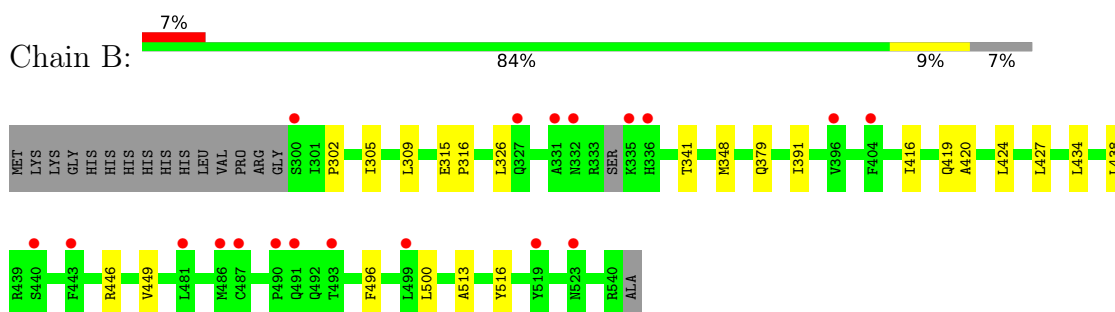
Chain A:

- Molecule 1: FTZ-F1 related protein

Chain B:

- Molecule 2: Nuclear receptor coactivator 2

Chain C:

- Molecule 2: Nuclear receptor coactivator 2

Chain D:

4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	52.67Å　89.05Å　65.45Å 90.00°　101.71°　90.00°	Depositor
Resolution (Å)	19.94　–　1.75 19.47　–　1.75	Depositor EDS
% Data completeness (in resolution range)	100.0 (19.94-1.75) 91.2 (19.47-1.75)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.79 (at 1.76Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.185　,　0.214 0.194　,　0.220	Depositor DCC
R_{free} test set	3905 reflections (7.19%)	wwPDB-VP
Wilson B-factor (Å^2)	26.1	Xtriage
Anisotropy	0.156	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.39 , 53.9	EDS
L-test for twinning[2]	$< |L| > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	4332	wwPDB-VP
Average B, all atoms (Å^2)	19.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.40% of the height of the origin peak. No significant pseudotranslation is detected.*

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[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 ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: EDO, 470

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	0.35	0/1903	0.48	0/2579
1	B	0.35	0/1947	0.50	0/2637
2	C	0.45	0/99	0.53	0/131
2	D	0.39	0/103	0.53	0/136
All	All	0.36	0/4052	0.49	0/5483

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1852	0	1833	15	0
1	B	1907	0	1889	22	0
2	C	99	0	108	2	0
2	D	103	0	112	1	0
3	A	29	0	35	2	0
3	B	29	0	35	0	0
4	A	4	0	6	0	0
4	B	4	0	6	0	0
5	A	137	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	B	148	0	0	4	0
5	C	10	0	0	0	0
5	D	10	0	0	0	0
All	All	4332	0	4024	37	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 5.

All (37) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:403:ILE:HD13	3:A:1:470:H27	1.49	0.95
1:B:305:ILE:O	1:B:309:LEU:HD13	1.77	0.84
1:B:309:LEU:HD12	1:B:449[B]:VAL:HG21	1.59	0.83
1:A:403:ILE:HD12	1:A:416:ILE:HD12	1.58	0.82
1:A:309:LEU:CD1	1:A:449[B]:VAL:HG11	2.14	0.78
1:B:513:ALA:HB2	5:B:100:HOH:O	1.85	0.77
1:B:420:ALA:HB1	1:B:424:LEU:HB3	1.69	0.74
1:B:309:LEU:HD12	1:B:449[A]:VAL:HG11	1.73	0.71
1:A:309:LEU:HD12	1:A:449[B]:VAL:HG11	1.73	0.69
1:A:361:ARG:NH1	2:C:751:LYS:O	2.27	0.67
1:A:348[B]:MET:CE	1:A:405:LEU:HD13	2.25	0.66
1:B:309:LEU:CD1	1:B:449[B]:VAL:HG21	2.26	0.65
1:B:348:MET:HA	1:B:348:MET:HE2	1.84	0.59
1:B:326:LEU:HD11	1:B:348:MET:HE1	1.85	0.59
1:B:434:LEU:CD1	5:B:154:HOH:O	2.51	0.58
1:A:379:GLN:HE22	2:C:740:LYS:N	2.05	0.55
1:B:391:ILE:HG21	1:B:438:LEU:HD12	1.92	0.51
1:B:326:LEU:HD11	1:B:348:MET:CE	2.40	0.51
1:A:348[B]:MET:SD	1:A:405:LEU:HD13	2.53	0.48
1:A:348[B]:MET:HE3	1:A:405:LEU:HD13	1.93	0.47
1:A:446:ARG:O	1:A:449[B]:VAL:HG12	2.14	0.47
1:B:341:THR:HG22	1:B:416[B]:ILE:HD13	1.96	0.47
1:B:315:GLU:HB3	1:B:316:PRO:HD3	1.97	0.47
1:A:403:ILE:CD1	1:A:416:ILE:HD12	2.37	0.46
1:B:434:LEU:HD13	5:B:154:HOH:O	2.14	0.46
1:B:496:PHE:CZ	1:B:500:LEU:HD11	2.50	0.46
1:B:302:PRO:HD2	1:B:305:ILE:HD12	1.97	0.46
1:A:305:ILE:O	1:A:309:LEU:HD13	2.15	0.45
1:B:379:GLN:HE22	2:D:740:LYS:N	2.13	0.45
1:B:348:MET:HA	1:B:348:MET:CE	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:348[A]:MET:HE1	1:A:407:THR:HG21	1.99	0.44
1:B:309:LEU:CD1	1:B:449[A]:VAL:HG11	2.43	0.43
1:A:403:ILE:CD1	3:A:1:470:H27	2.34	0.43
1:B:427:LEU:HD22	5:B:100:HOH:O	2.19	0.43
1:B:341:THR:N	1:B:419:GLN:HE22	2.19	0.41
1:B:424:LEU:HD13	1:B:516:TYR:CE2	2.56	0.41
1:A:315:GLU:N	1:A:316:PRO:CD	2.85	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	232/257 (90%)	228 (98%)	4 (2%)	0	100	100
1	B	238/257 (93%)	236 (99%)	2 (1%)	0	100	100
2	C	10/14 (71%)	9 (90%)	1 (10%)	0	100	100
2	D	10/14 (71%)	10 (100%)	0	0	100	100
All	All	490/542 (90%)	483 (99%)	7 (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	199/231 (86%)	197 (99%)	2 (1%)	76	63
1	B	203/231 (88%)	202 (100%)	1 (0%)	88	83
2	C	10/13 (77%)	10 (100%)	0	100	100
2	D	11/13 (85%)	11 (100%)	0	100	100
All	All	423/488 (87%)	420 (99%)	3 (1%)	84	75

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	300	SER
1	A	446	ARG
1	B	446	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	379	GLN
1	A	419	GLN
1	A	426	ASN
1	A	432	GLN
1	A	478	ASN
1	A	512	GLN
1	B	327	GLN
1	B	330	GLN
1	B	379	GLN
1	B	419	GLN
1	B	521	HIS

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 monosaccharides in this entry.

5.6 Ligand geometry (i)

4 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#|Z| > 2$	Counts	RMSZ	$\#|Z| > 2$
3	470	A	1	-	29,32,32	0.52	0	32,44,44	1.22	1 (3%)
4	EDO	B	2	-	3,3,3	0.43	0	2,2,2	0.30	0
4	EDO	A	2	-	3,3,3	0.46	0	2,2,2	0.30	0
3	470	B	1	-	29,32,32	0.47	0	32,44,44	1.31	3 (9%)

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	470	A	1	-	-	1/18/47/47	0/4/4/4
4	EDO	B	2	-	-	1/1/1/1	-
4	EDO	A	2	-	-	1/1/1/1	-
3	470	B	1	-	-	0/18/47/47	0/4/4/4

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	B	1	470	C18-C17-N1	-4.51	105.77	112.80
3	A	1	470	C18-C17-N1	-4.50	105.78	112.80
3	B	1	470	C21-C22-C9	2.21	105.06	100.48
3	B	1	470	C10-C17-N1	2.12	114.39	111.06

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1	470	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
4	B	2	EDO	O1-C1-C2-O2
4	A	2	EDO	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1	470	2	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 470 A 1

Bond lengths

Bond angles

Torsions

Rings

Ligand 470 B 1

Bond lengths

Bond angles

Torsions

Rings
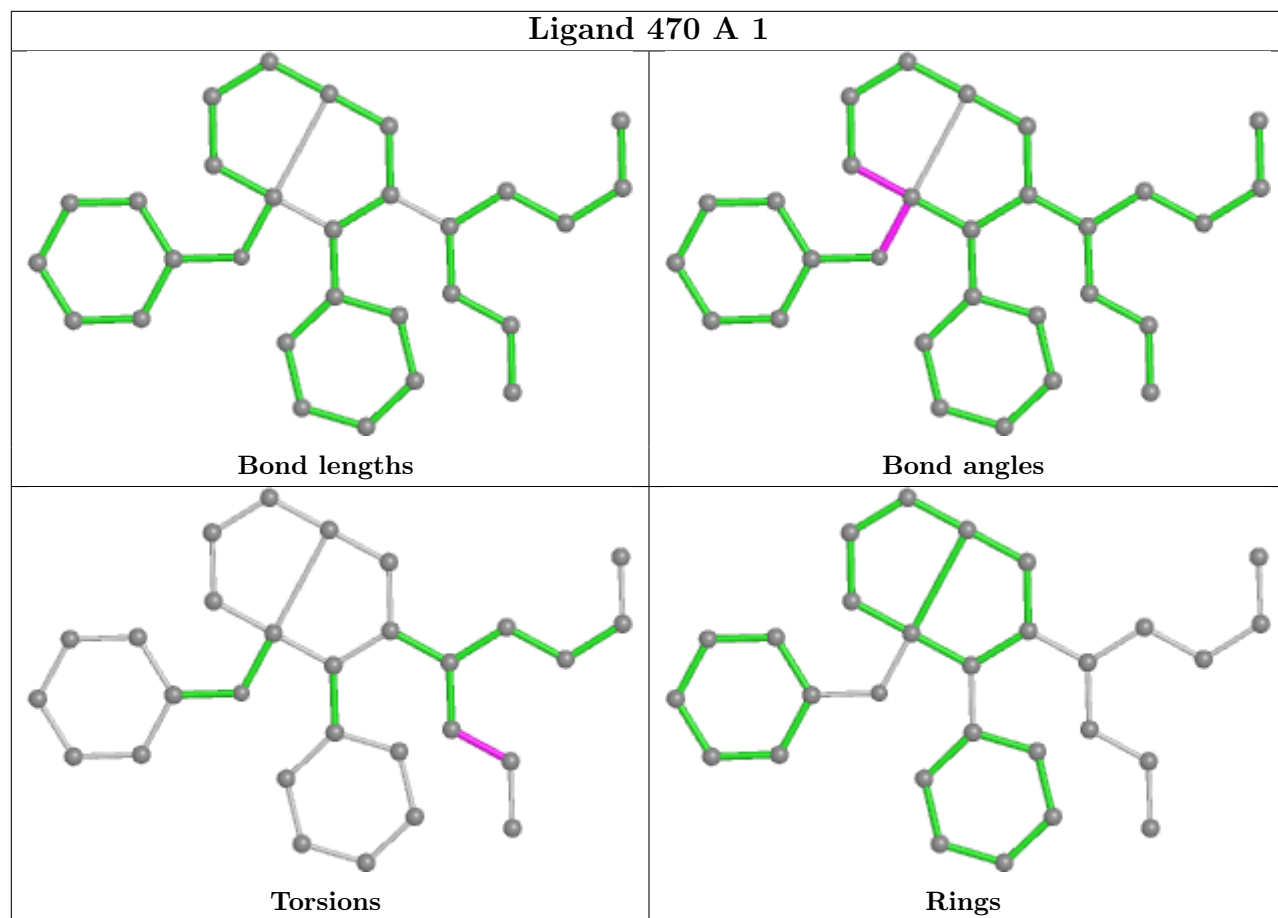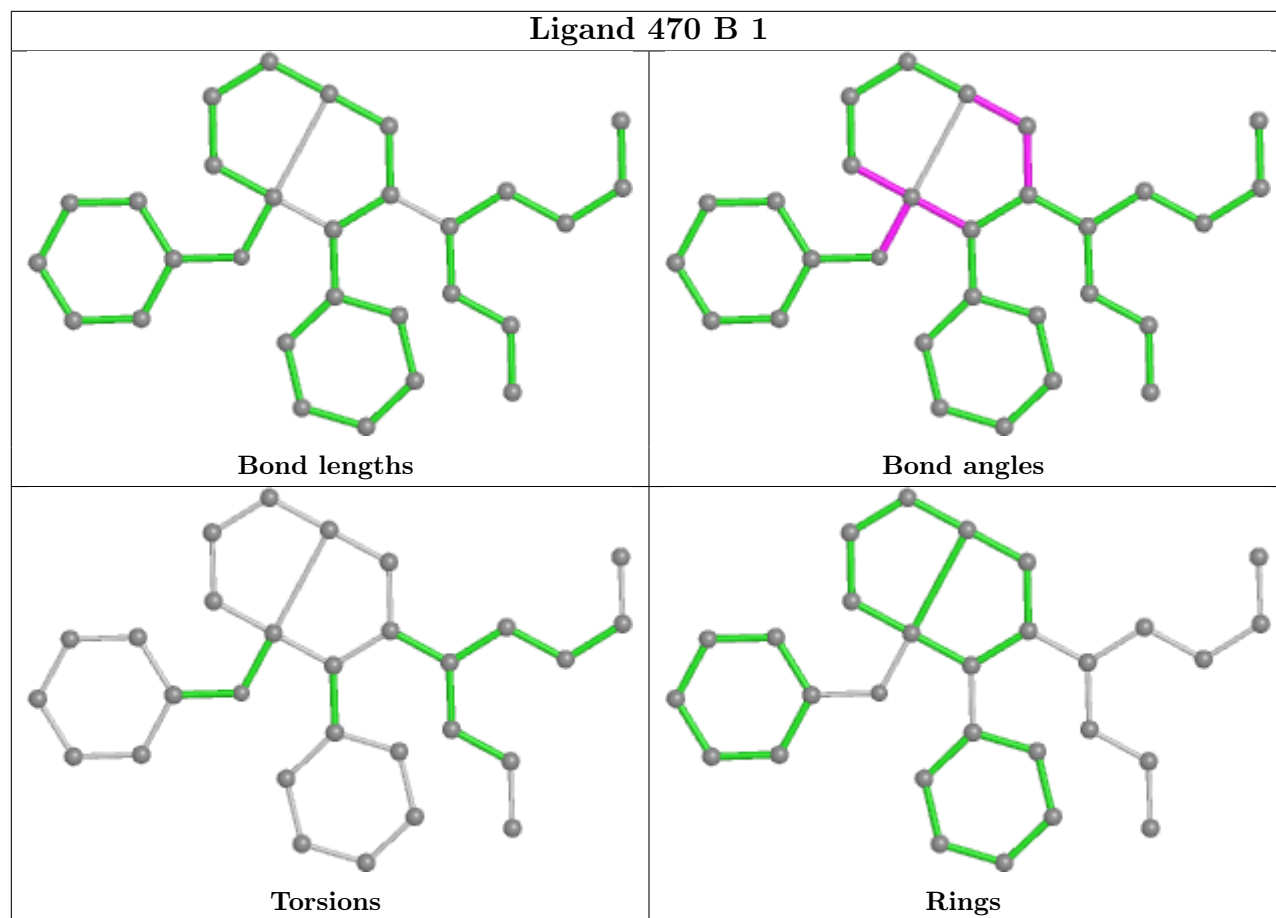
5.7 Other polymers ⓘ

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	231/257 (89%)	0.75	33 (14%)	2	3	12, 18, 29, 44	0
1	B	240/257 (93%)	0.66	19 (7%)	12	16	12, 18, 27, 36	0
2	C	12/14 (85%)	0.86	2 (16%)	1	2	11, 14, 25, 31	0
2	D	12/14 (85%)	0.56	1 (8%)	11	14	11, 15, 26, 27	0
All	All	495/542 (91%)	0.70	55 (11%)	5	7	11, 18, 28, 44	0

All (55) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	339	LEU	8.9
1	A	493	THR	7.0
1	A	338	LYS	6.0
1	B	336	HIS	5.7
1	B	490	PRO	5.4
1	B	491	GLN	4.4
1	A	316	PRO	4.3
1	A	327	GLN	4.3
1	A	400	GLU	4.3
1	B	335	LYS	4.1
1	A	467	PHE	4.0
1	B	332	ASN	3.9
1	A	398	GLY	3.8
1	A	491	GLN	3.7
1	A	329	GLU	3.7
1	B	487	CYS	3.7
1	B	331	ALA	3.5
1	A	538	ALA	3.5
1	A	325	TYR	3.5
1	A	404[A]	PHE	3.3
1	A	470	VAL	3.3

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WORLDWIDE
wwPDB
PROTEIN DATA BANK

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Mol	Chain	Res	Type	RSRZ
1	B	486	MET	3.3
1	B	481	LEU	3.1
2	C	741	GLU	3.0
1	A	399	LYS	3.0
1	B	327	GLN	3.0
1	B	396	VAL	3.0
2	C	740	LYS	2.9
1	A	481	LEU	2.8
1	A	377	LEU	2.7
1	A	314	ASP	2.7
1	B	440	SER	2.7
1	A	490	PRO	2.7
1	A	328	GLN	2.7
1	B	300	SER	2.6
1	B	493	THR	2.6
1	A	366	PHE	2.5
1	B	523	ASN	2.5
1	A	323	MET	2.4
1	B	499	LEU	2.4
1	A	459	LEU	2.3
1	B	404	PHE	2.3
1	A	326	LEU	2.3
1	A	397	HIS	2.3
1	B	519	TYR	2.3
1	A	403	ILE	2.2
1	A	315	GLU	2.2
1	A	460	ASP	2.2
1	A	369	LEU	2.1
1	A	442	GLN	2.1
1	A	499	LEU	2.1
1	B	443	PHE	2.1
2	D	740	LYS	2.1
1	A	391	ILE	2.1
1	A	378	LEU	2.0

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

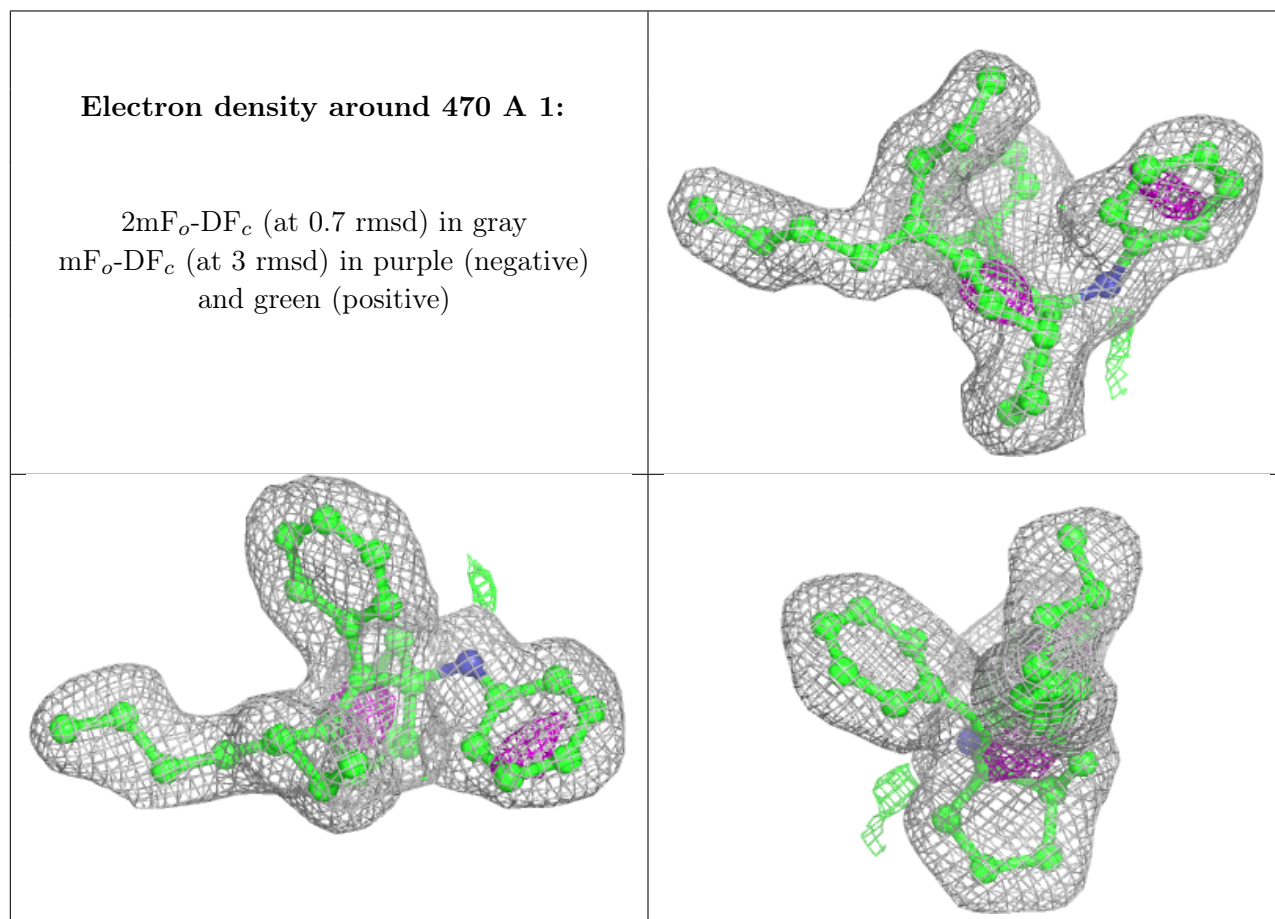There are no non-standard protein/DNA/RNA residues in this entry.

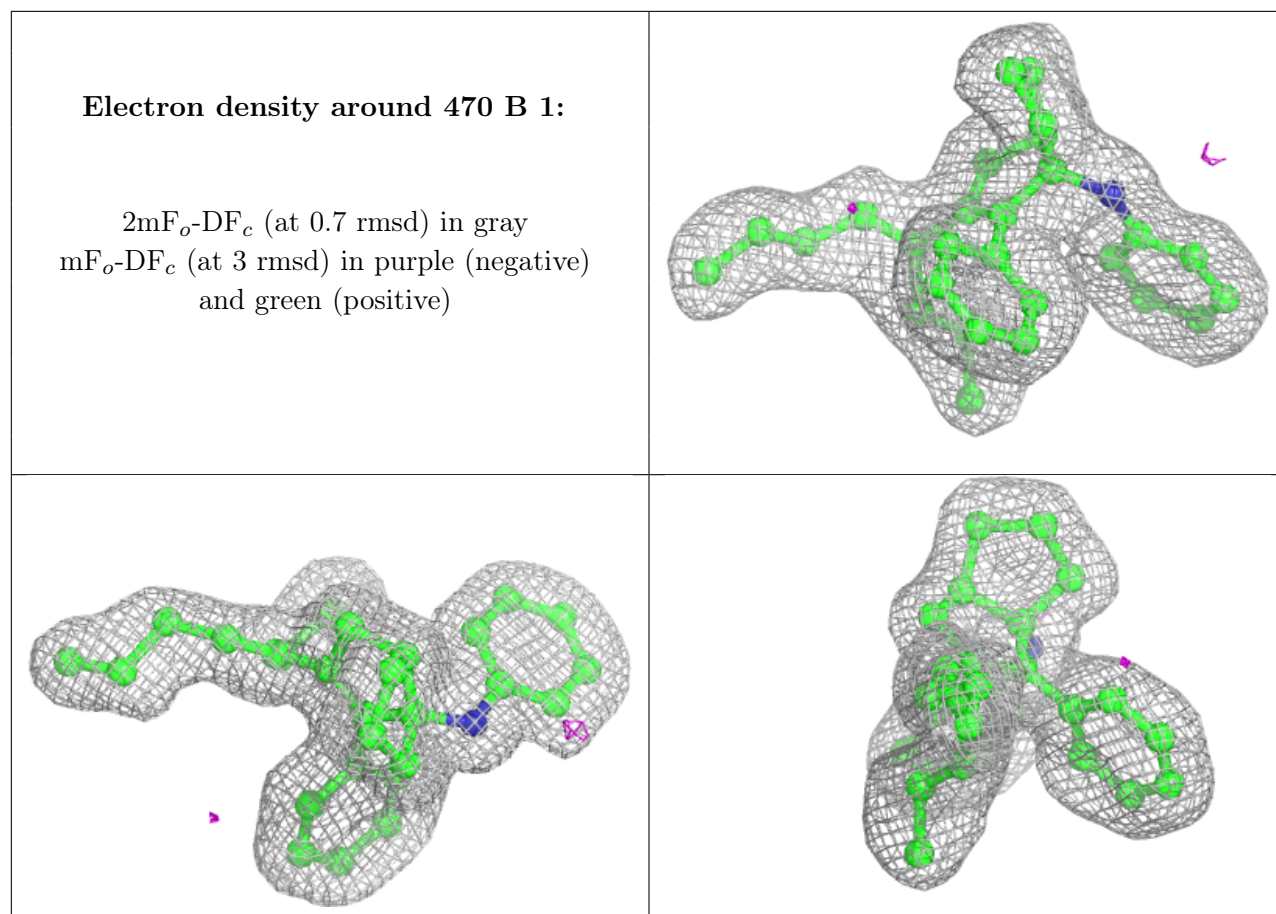## 6.3 Carbohydrates ⓘ

There are no monosaccharides 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
4	EDO	A	2	4/4	0.83	0.09	59,59,59,59	0
4	EDO	B	2	4/4	0.85	0.21	52,53,53,53	0
3	470	A	1	29/29	0.89	0.13	21,23,27,29	0
3	470	B	1	29/29	0.96	0.12	13,15,23,28	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 470 A 1:

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

Electron density around 470 B 1:

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

6.5 Other polymers ⓘ

There are no such residues in this entry.