



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 4, 2026 – 06:46 PM UTC

PDB ID : 7V7W / pdb_00007v7w
Title : Crystal Structure of the Heterodimeric HIF-3a:ARNT Complex with oleoylethanolamide (OEA)
Authors : Diao, X.; Ren, X.; Li, F.W.; Zhang, M.; Sun, X.; Wu, D.
Deposited on : 2021-08-21
Resolution : 2.51 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

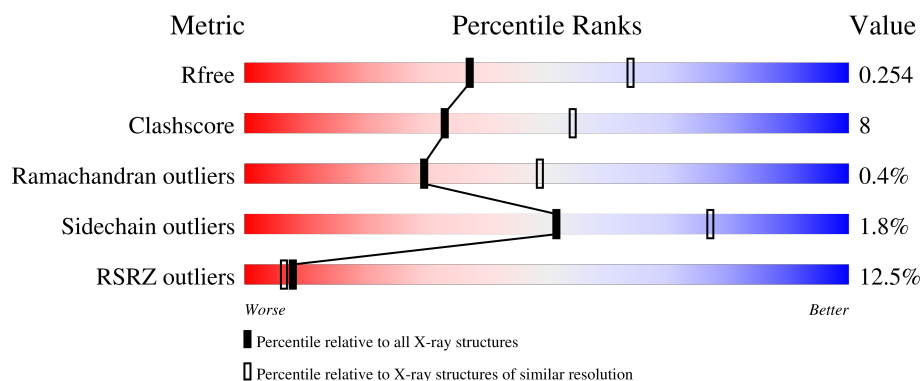
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.51 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	5829 (2.50-2.50)
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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	359	9% 64% 13% • 22%
2	B	364	11% 64% 15% • 21%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4693 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 Aryl hydrocarbon receptor nuclear translocator.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	279	Total	C	N	O	S	0	0	0
			2250	1420	392	419	19			

There are 26 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	81	MET	-	initiating methionine	UNP P53762
A	?	-	LEU	deletion	UNP P53762
A	?	-	THR	deletion	UNP P53762
A	?	-	GLY	deletion	UNP P53762
A	?	-	ARG	deletion	UNP P53762
A	?	-	VAL	deletion	UNP P53762
A	?	-	LEU	deletion	UNP P53762
A	?	-	ASP	deletion	UNP P53762
A	?	-	LEU	deletion	UNP P53762
A	?	-	LYS	deletion	UNP P53762
A	?	-	THR	deletion	UNP P53762
A	?	-	GLY	deletion	UNP P53762
A	?	-	THR	deletion	UNP P53762
A	?	-	VAL	deletion	UNP P53762
A	?	-	LYS	deletion	UNP P53762
A	?	-	LYS	deletion	UNP P53762
A	?	-	GLU	deletion	UNP P53762
A	?	-	GLY	deletion	UNP P53762
A	?	-	GLN	deletion	UNP P53762
A	?	-	GLN	deletion	UNP P53762
A	?	-	SER	deletion	UNP P53762
A	?	-	SER	deletion	UNP P53762
A	?	-	MET	deletion	UNP P53762
A	?	-	ARG	deletion	UNP P53762
A	?	-	MET	deletion	UNP P53762
A	?	-	CYS	deletion	UNP P53762

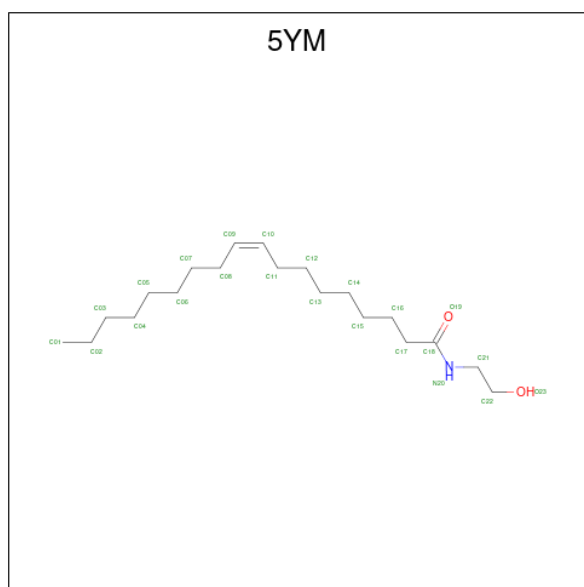
- Molecule 2 is a protein called Hypoxia-inducible factor 3-alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	288	Total	C	N	O	S	0	1	0
			2271	1432	399	424	16			

There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	3	MET	-	initiating methionine	UNP Q0VBL6
B	359	LEU	-	expression tag	UNP Q0VBL6
B	360	GLU	-	expression tag	UNP Q0VBL6
B	361	HIS	-	expression tag	UNP Q0VBL6
B	362	HIS	-	expression tag	UNP Q0VBL6
B	363	HIS	-	expression tag	UNP Q0VBL6
B	364	HIS	-	expression tag	UNP Q0VBL6
B	365	HIS	-	expression tag	UNP Q0VBL6
B	366	HIS	-	expression tag	UNP Q0VBL6

- Molecule 3 is (Z)-N-(2-hydroxyethyl)octadec-9-enamide (CCD ID: 5YM) (formula: $C_{20}H_{39}NO_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	B	1	Total	C	N	O	0	0
			23	20	1	2		

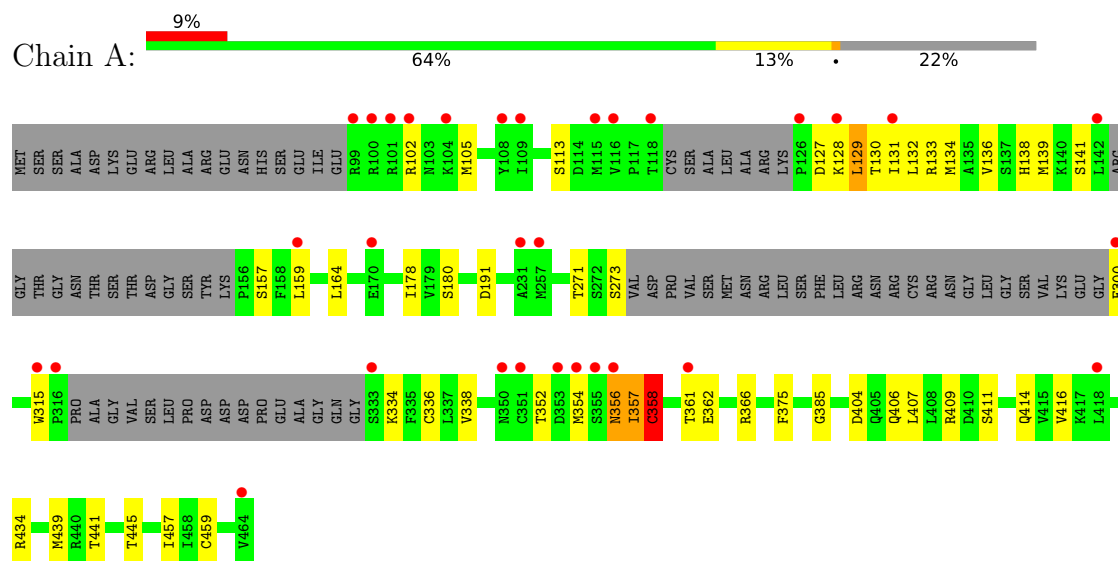
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	75	Total 75	O 75	0	0
4	B	74	Total 74	O 74	0	0

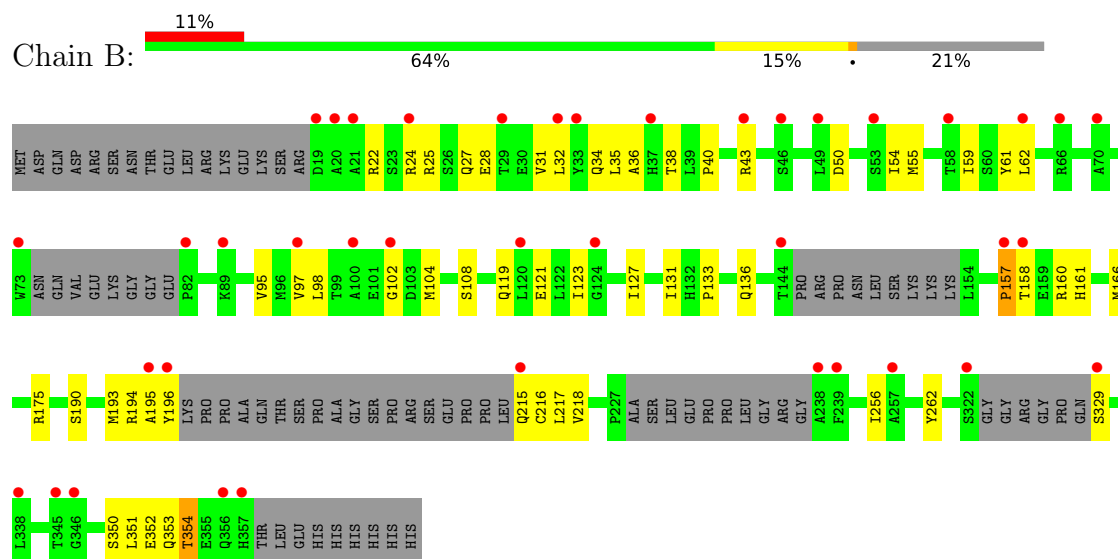
3 Residue-property plots [i](#)

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: Aryl hydrocarbon receptor nuclear translocator



- Molecule 2: Hypoxia-inducible factor 3-alpha



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	65.94Å 86.79Å 143.72Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	35.93 – 2.51 35.93 – 2.51	Depositor EDS
% Data completeness (in resolution range)	96.3 (35.93-2.51) 92.8 (35.93-2.51)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.57 (at 2.51Å)	Xtriage
Refinement program	PHENIX 1.14	Depositor
R, R_{free}	0.218 , 0.260 (Not available) , 0.254	Depositor DCC
R_{free} test set	2000 reflections (7.16%)	wwPDB-VP
Wilson B-factor (Å ²)	32.9	Xtriage
Anisotropy	0.081	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 53.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	4693	wwPDB-VP
Average B, all atoms (Å ²)	50.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.65% 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: 5YM

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	0.43	2/2297 (0.1%)	0.63	3/3102 (0.1%)
2	B	0.38	0/2317	0.60	0/3131
All	All	0.41	2/4614 (0.0%)	0.61	3/6233 (0.0%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	409	ARG	C-O	-5.54	1.17	1.24
1	A	406	GLN	C-O	-5.26	1.18	1.24

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	357	ILE	N-CA-C	-6.38	107.08	113.20
1	A	358	CYS	CB-CA-C	-6.05	100.87	112.43
1	A	356	ASN	CB-CA-C	-5.99	100.64	114.41

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	2250	0	2217	39	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	2271	0	2240	43	0
3	B	23	0	0	0	0
4	A	75	0	0	1	0
4	B	74	0	0	1	0
All	All	4693	0	4457	70	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 8.

All (70) 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:132:LEU:HD11	2:B:31:VAL:HG13	1.12	1.08
1:A:132:LEU:HD11	2:B:31:VAL:CG1	1.87	1.03
1:A:132:LEU:CD1	2:B:31:VAL:HG13	1.95	0.97
2:B:36:ALA:HB2	2:B:54:ILE:HD13	1.65	0.78
1:A:113:SER:HB2	1:A:131:ILE:HG12	1.67	0.75
2:B:195:ALA:HA	2:B:215:GLN:HA	1.69	0.74
2:B:193:MET:HE3	2:B:216:CYS:O	1.89	0.73
2:B:97:VAL:HG22	2:B:218:VAL:HG12	1.71	0.71
2:B:351:LEU:O	2:B:354:THR:HG22	1.91	0.70
1:A:102:ARG:HG2	1:A:105:MET:HB3	1.73	0.70
1:A:178:ILE:HG12	1:A:338:VAL:HG13	1.77	0.67
1:A:139:MET:HE2	1:A:139:MET:HA	1.76	0.66
2:B:24:ARG:O	2:B:28:GLU:HG3	1.98	0.64
2:B:55:MET:O	2:B:59:ILE:HG12	1.98	0.64
1:A:129:LEU:HB2	2:B:28:GLU:HG2	1.81	0.62
2:B:50:ASP:O	2:B:54:ILE:HG13	2.01	0.60
2:B:160:ARG:HG3	2:B:217:LEU:HD11	1.82	0.60
1:A:366:ARG:NH1	4:A:501:HOH:O	2.30	0.59
1:A:131:ILE:HD12	1:A:134:MET:HE3	1.83	0.59
2:B:27:GLN:O	2:B:31:VAL:HG12	2.02	0.59
2:B:256:ILE:HG23	2:B:262:TYR:O	2.04	0.58
1:A:129:LEU:HD21	1:A:133:ARG:NH1	2.19	0.58
1:A:164:LEU:HD11	2:B:95:VAL:HG11	1.87	0.57
1:A:132:LEU:CD1	2:B:31:VAL:CG1	2.70	0.56
1:A:138:HIS:O	1:A:141:SER:HB2	2.06	0.56
2:B:32:LEU:HD11	2:B:55:MET:SD	2.46	0.55
1:A:139:MET:HE1	2:B:61:TYR:CD2	2.42	0.55
2:B:121:GLU:OE2	2:B:175:ARG:NH1	2.36	0.54
1:A:416:VAL:HA	1:A:445:THR:HG21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:329:SER:N	4:B:506:HOH:O	2.42	0.53
1:A:445:THR:HG22	1:A:457:ILE:HG12	1.90	0.53
2:B:95:VAL:HG12	2:B:108:SER:HB3	1.91	0.52
2:B:102:GLY:O	2:B:127:ILE:HG22	2.10	0.52
1:A:361:THR:HG23	1:A:362:GLU:HG2	1.92	0.52
1:A:271:THR:HG21	1:A:300:GLU:O	2.10	0.52
2:B:22:ARG:HA	2:B:25:ARG:HB2	1.92	0.51
1:A:356:ASN:ND2	1:A:358:CYS:SG	2.84	0.51
2:B:215:GLN:O	2:B:215:GLN:HG3	2.09	0.51
1:A:366:ARG:HB2	1:A:375:PHE:HB3	1.94	0.50
1:A:132:LEU:C	1:A:132:LEU:HD12	2.37	0.50
1:A:352:THR:HG21	1:A:354:MET:HE3	1.94	0.50
2:B:34:GLN:O	2:B:38:THR:HG23	2.12	0.49
2:B:35:LEU:O	2:B:38:THR:OG1	2.25	0.48
2:B:350:SER:OG	2:B:353:GLN:HG3	2.13	0.48
2:B:25:ARG:HA	2:B:28:GLU:OE2	2.14	0.48
1:A:157:SER:OG	1:A:159:LEU:O	2.29	0.47
1:A:441:THR:HG23	1:A:459:CYS:HB3	1.97	0.47
1:A:139:MET:HE3	2:B:62:LEU:HD21	1.96	0.47
2:B:131:ILE:HG22	2:B:166:MET:HG2	1.97	0.47
1:A:191:ASP:N	1:A:191:ASP:OD1	2.47	0.47
2:B:157:PRO:O	2:B:160:ARG:NH2	2.48	0.46
1:A:385:GLY:HA3	1:A:434:ARG:HH12	1.80	0.46
2:B:193:MET:HE3	2:B:216:CYS:C	2.39	0.46
2:B:133:PRO:O	2:B:136:GLN:HG3	2.16	0.46
1:A:132:LEU:CD1	2:B:31:VAL:HG22	2.46	0.45
1:A:132:LEU:HD12	2:B:31:VAL:HG22	1.99	0.45
1:A:180:SER:HA	1:A:336:CYS:SG	2.58	0.44
1:A:130:THR:O	1:A:134:MET:HG3	2.17	0.43
1:A:273:SER:O	1:A:273:SER:OG	2.26	0.43
2:B:161:HIS:CD2	2:B:190:SER:HB2	2.54	0.42
1:A:411:SER:O	1:A:414:GLN:HB2	2.19	0.42
1:A:315:TRP:N	1:A:334:LYS:O	2.44	0.42
1:A:404:ASP:O	1:A:407:LEU:HB3	2.20	0.42
1:A:136:VAL:HG11	2:B:34:GLN:NE2	2.35	0.41
2:B:40:PRO:HG3	2:B:61:TYR:CD1	2.55	0.41
2:B:98:LEU:HD23	2:B:104:MET:HA	2.02	0.41
2:B:119:GLN:O	2:B:123:ILE:HG13	2.20	0.41
1:A:139:MET:HE1	2:B:61:TYR:CE2	2.55	0.41
1:A:439:MET:HE2	1:A:439:MET:HB2	1.84	0.41
2:B:158:THR:O	2:B:158:THR:OG1	2.37	0.41

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	269/359 (75%)	254 (94%)	14 (5%)	1 (0%)	30	49
2	B	277/364 (76%)	273 (99%)	3 (1%)	1 (0%)	30	49
All	All	546/723 (76%)	527 (96%)	17 (3%)	2 (0%)	30	49

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	128	LYS
2	B	157	PRO

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	260/325 (80%)	256 (98%)	4 (2%)	57	80
2	B	247/311 (79%)	242 (98%)	5 (2%)	48	75
All	All	507/636 (80%)	498 (98%)	9 (2%)	51	77

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	127	ASP

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Mol	Chain	Res	Type
1	A	129	LEU
1	A	357	ILE
1	A	358	CYS
2	B	43	ARG
2	B	194	ARG
2	B	196	TYR
2	B	352	GLU
2	B	354	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	103	ASN
1	A	138	HIS
1	A	166	HIS
1	A	344	GLN
1	A	359	GLN
1	A	387	GLN
2	B	140	GLN
2	B	315	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

1 ligand is 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	5YM	B	401	-	22,22,22	1.35	3 (13%)	22,22,22	0.81	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
3	5YM	B	401	-	-	8/21/21/21	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	401	5YM	C18-N20	4.82	1.44	1.33
3	B	401	5YM	C21-N20	-2.59	1.40	1.46
3	B	401	5YM	O19-C18	-2.39	1.18	1.23

There are no bond angle outliers.

There are no chirality outliers.

All (8) torsion outliers are listed below:

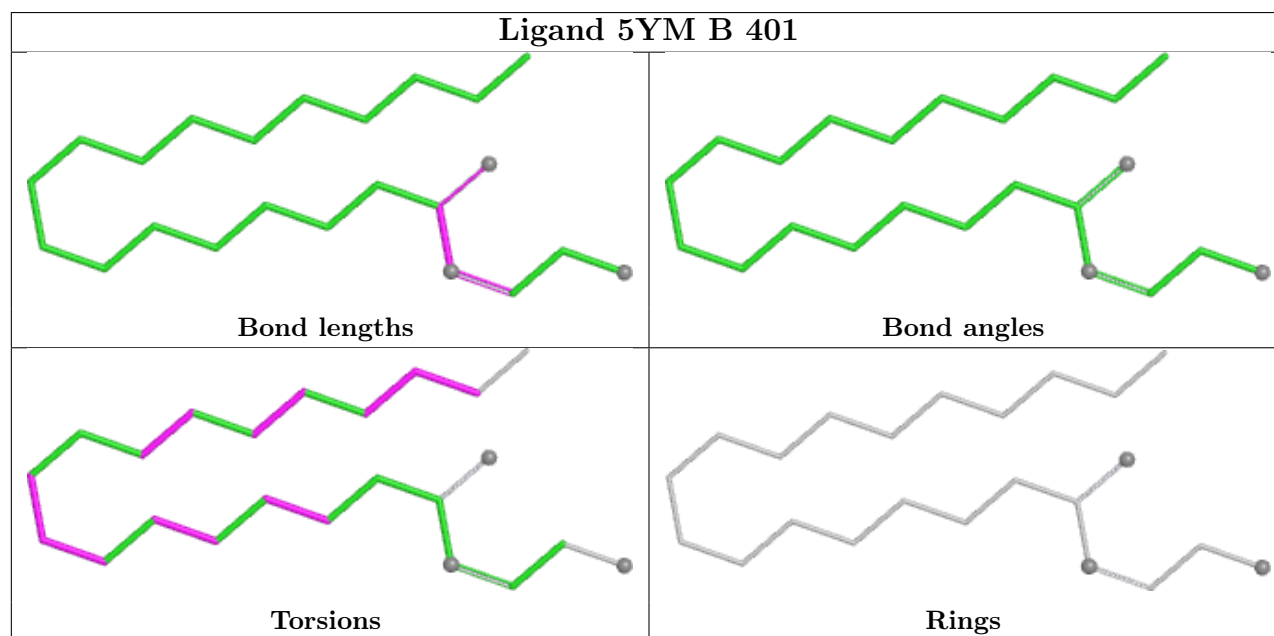
Mol	Chain	Res	Type	Atoms
3	B	401	5YM	C04-C05-C06-C07
3	B	401	5YM	C02-C03-C04-C05
3	B	401	5YM	C14-C15-C16-C17
3	B	401	5YM	C06-C07-C08-C09
3	B	401	5YM	C01-C02-C03-C04
3	B	401	5YM	C09-C10-C11-C12
3	B	401	5YM	C12-C13-C14-C15
3	B	401	5YM	C10-C11-C12-C13

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	279/359 (77%)	0.57	31 (11%) 10 8	21, 39, 95, 124	0
2	B	288/364 (79%)	0.74	40 (13%) 6 5	20, 46, 97, 144	1 (0%)
All	All	567/723 (78%)	0.65	71 (12%) 8 6	20, 42, 97, 144	1 (0%)

All (71) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	196	TYR	6.0
1	A	354	MET	5.5
2	B	322	SER	5.4
2	B	29	THR	4.6
1	A	316	PRO	4.4
2	B	239	PHE	4.2
1	A	142	LEU	4.0
2	B	62	LEU	4.0
2	B	82	PRO	4.0
2	B	21	ALA	3.8
2	B	257	ALA	3.7
1	A	109	ILE	3.7
2	B	195	ALA	3.6
1	A	118	THR	3.5
1	A	102	ARG	3.4
2	B	20	ALA	3.4
1	A	126	PRO	3.4
1	A	464	VAL	3.3
1	A	355	SER	3.3
1	A	131	ILE	3.2
1	A	231	ALA	3.1
1	A	356	ASN	3.1
1	A	99	ARG	3.0
2	B	33	TYR	3.0

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Mol	Chain	Res	Type	RSRZ
2	B	357	HIS	3.0
1	A	333	SER	2.9
2	B	238	ALA	2.9
2	B	73	TRP	2.9
2	B	53	SER	2.8
1	A	300	GLU	2.8
2	B	19	ASP	2.8
1	A	101	ARG	2.8
2	B	43	ARG	2.7
2	B	124	GLY	2.7
1	A	257	MET	2.5
2	B	37	HIS	2.5
2	B	49	LEU	2.5
2	B	46	SER	2.4
2	B	32	LEU	2.4
2	B	70	ALA	2.4
1	A	115	MET	2.3
1	A	108	TYR	2.3
1	A	104	LYS	2.3
1	A	315	TRP	2.3
1	A	350	ASN	2.3
2	B	100	ALA	2.3
1	A	351	CYS	2.3
2	B	102	GLY	2.2
1	A	418	LEU	2.2
2	B	58	THR	2.2
2	B	24	ARG	2.2
1	A	116	VAL	2.2
2	B	144	THR	2.2
1	A	353	ASP	2.2
2	B	356	GLN	2.2
2	B	346	GLY	2.2
2	B	66	ARG	2.2
2	B	157	PRO	2.2
1	A	159	LEU	2.1
1	A	361	THR	2.1
2	B	345	THR	2.1
1	A	100	ARG	2.1
2	B	120	LEU	2.1
1	A	170	GLU	2.1
2	B	215	GLN	2.1
2	B	97	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
2	B	158	THR	2.1
2	B	89	LYS	2.1
2	B	338	LEU	2.0
2	B	329	SER	2.0
1	A	128	LYS	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](#)

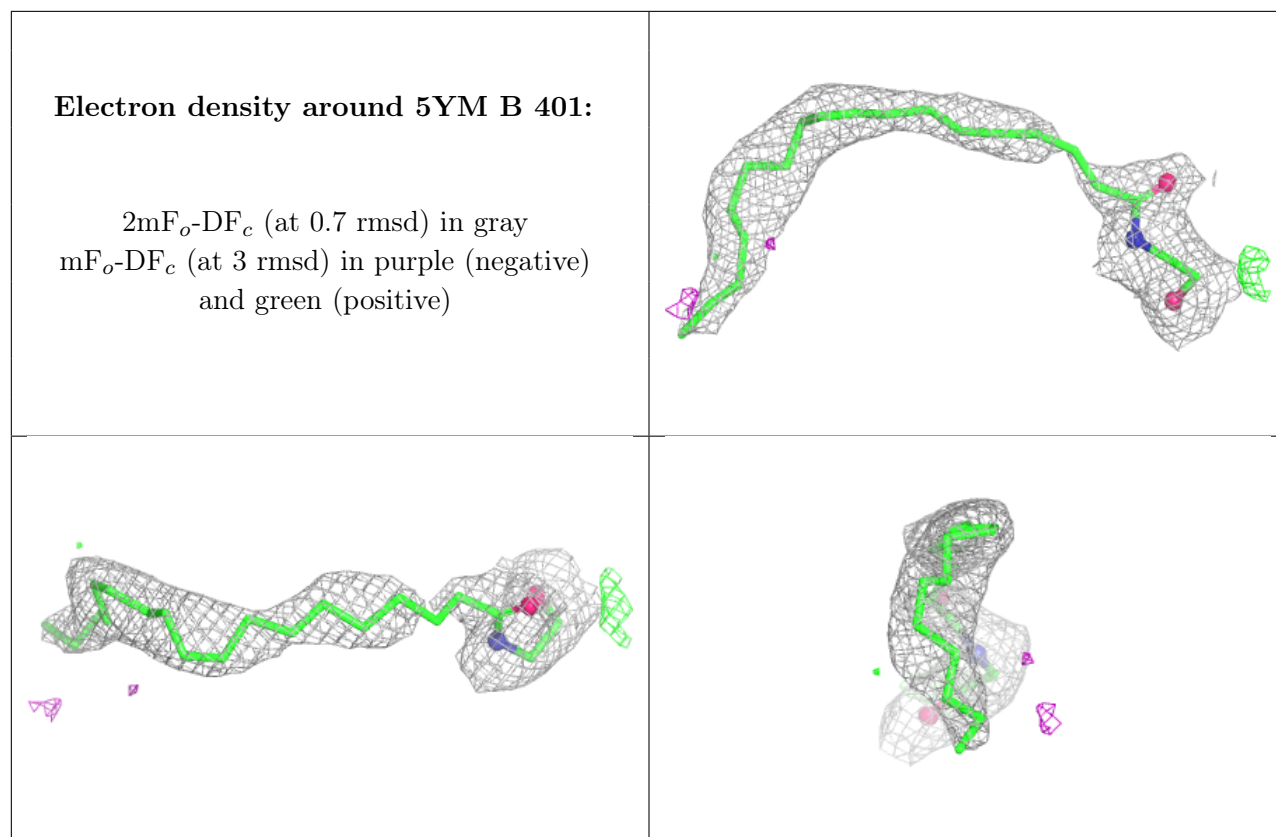
There are no oligosaccharides in this entry.

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	5YM	B	401	23/23	0.91	0.14	29,49,65,65	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.



6.5 Other polymers [i](#)

There are no such residues in this entry.