



Full wwPDB X-ray Structure Validation Report ⓘ

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PDB ID : 3RO5 / pdb_00003ro5
Title : Crystal structure of influenza A virus nucleoprotein with ligand
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Deposited on : 2011-04-25
Resolution : 2.66 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

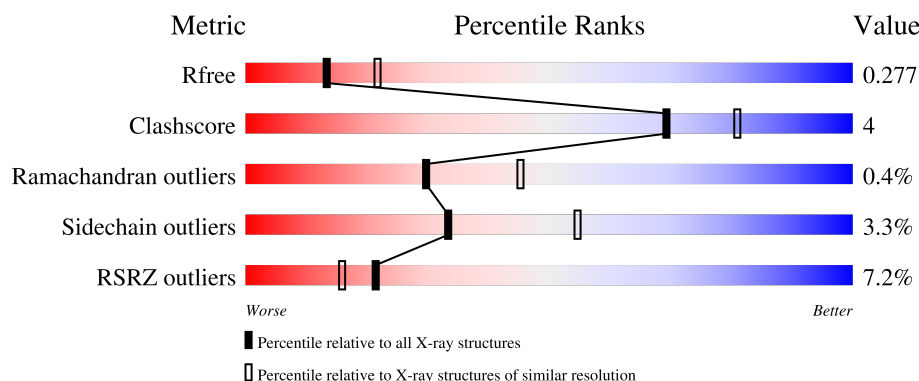
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.66 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	1110 (2.66-2.66)
Clashscore	190562	1141 (2.66-2.66)
Ramachandran outliers	187476	1126 (2.66-2.66)
Sidechain outliers	187428	1126 (2.66-2.66)
RSRZ outliers	180081	1110 (2.66-2.66)

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	499	3% 78% 7% 14%
1	B	499	9% 79% 5% 15%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	LGH	B	1	-	-	X	-

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 6341 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.

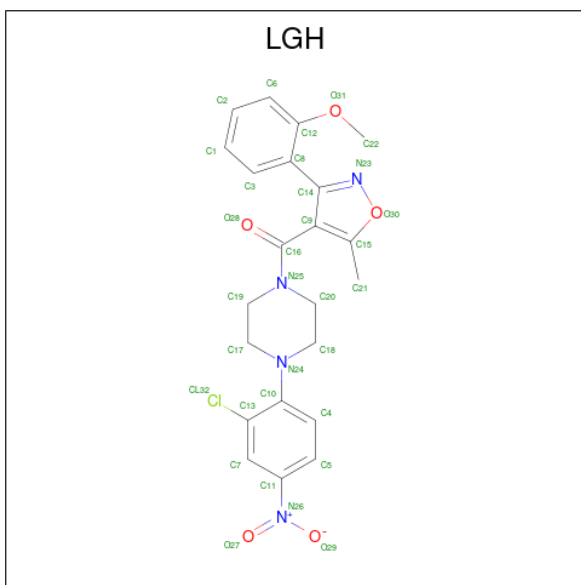
- Molecule 1 is a protein called Nucleocapsid protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	430	Total	C	N	O	S	0	0	0
			3224	2030	561	608	25			
1	B	423	Total	C	N	O	S	0	0	0
			3023	1899	521	579	24			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	499	LEU	-	expression tag	UNP Q1K9H2
A	500	GLU	-	expression tag	UNP Q1K9H2
A	501	HIS	-	expression tag	UNP Q1K9H2
A	502	HIS	-	expression tag	UNP Q1K9H2
A	503	HIS	-	expression tag	UNP Q1K9H2
A	504	HIS	-	expression tag	UNP Q1K9H2
A	505	HIS	-	expression tag	UNP Q1K9H2
A	506	HIS	-	expression tag	UNP Q1K9H2
B	499	LEU	-	expression tag	UNP Q1K9H2
B	500	GLU	-	expression tag	UNP Q1K9H2
B	501	HIS	-	expression tag	UNP Q1K9H2
B	502	HIS	-	expression tag	UNP Q1K9H2
B	503	HIS	-	expression tag	UNP Q1K9H2
B	504	HIS	-	expression tag	UNP Q1K9H2
B	505	HIS	-	expression tag	UNP Q1K9H2
B	506	HIS	-	expression tag	UNP Q1K9H2

- Molecule 2 is [4-(2-chloro-4-nitrophenyl)piperazin-1-yl][3-(2-methoxyphenyl)-5-methyl-1,2-oxazol-4-yl]methanone (CCD ID: LGH) (formula: C₂₂H₂₁ClN₄O₅).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	B	1	Total 32	C 22	Cl 1	N 4	O 5	0	0
2	B	1	Total 32	C 22	Cl 1	N 4	O 5	0	0

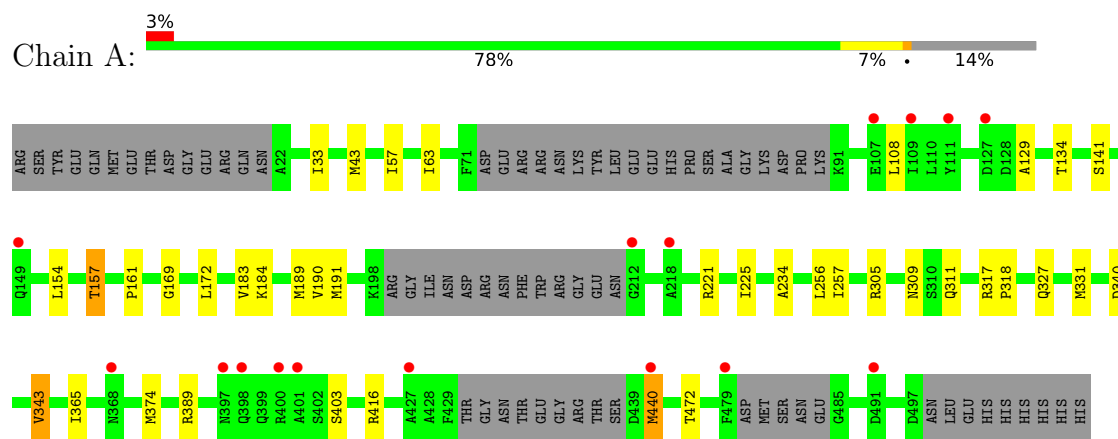
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	23	Total O 23 23	0	0
3	B	7	Total O 7 7	0	0

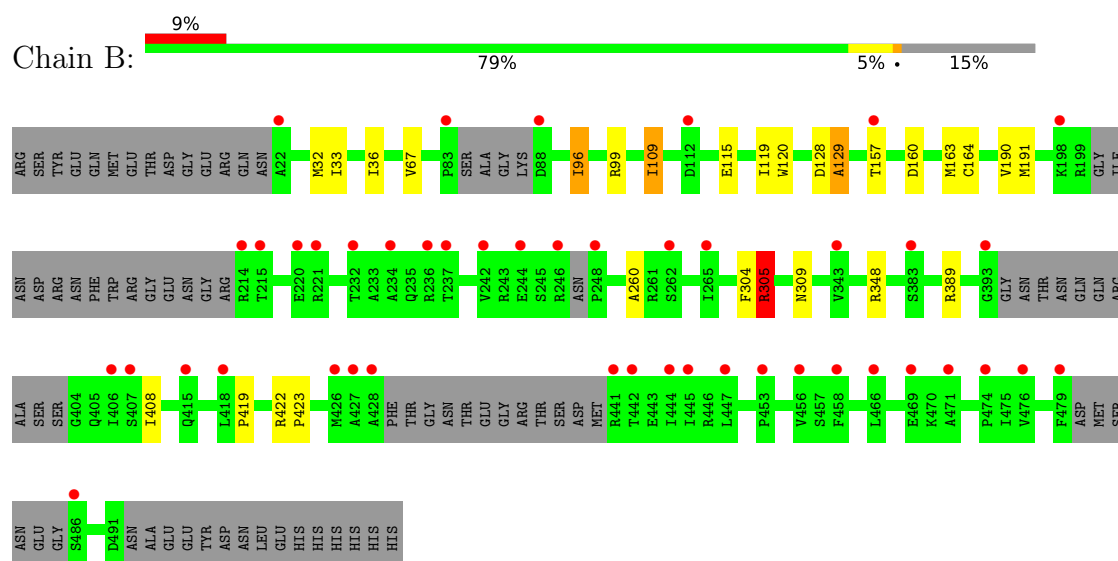
3 Residue-property plots [i](#)

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: Nucleocapsid protein



• Molecule 1: Nucleocapsid protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 3	Depositor
Cell constants a, b, c, α , β , γ	146.20Å 146.20Å 146.20Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.70 – 2.66 48.70 – 2.66	Depositor EDS
% Data completeness (in resolution range)	99.9 (48.70-2.66) 99.9 (48.70-2.66)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.22 (at 2.65Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.245 , 0.280 0.244 , 0.277	Depositor DCC
R_{free} test set	1527 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	54.7	Xtriage
Anisotropy	0.000	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 46.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.035 for l,-k,h	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	6341	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 2.46% 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: LGH

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	0/3279	0.79	0/4433
1	B	0.43	0/3075	0.82	0/4178
All	All	0.43	0/6354	0.81	0/8611

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	305	ARG	Sidechain

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	3224	0	3082	24	0
1	B	3023	0	2731	16	0
2	B	64	0	42	15	0
3	A	23	0	0	0	0
3	B	7	0	0	0	0
All	All	6341	0	5855	43	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 4.

All (43) 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:305:ARG:HD2	2:B:1:LGH:C5	1.82	1.08
1:A:305:ARG:HD2	2:B:1:LGH:H5	1.59	0.84
1:A:189:MET:HA	1:A:189:MET:HE2	1.69	0.74
1:A:305:ARG:CD	2:B:1:LGH:C5	2.67	0.72
1:A:184:LYS:HD3	1:A:189:MET:HE3	1.79	0.64
1:B:96:ILE:HD12	1:B:109:ILE:HG21	1.82	0.60
1:B:304:PHE:HE2	1:B:389:ARG:HH12	1.48	0.59
1:A:311:GLN:HE22	1:B:309:ASN:HA	1.68	0.58
2:B:1:LGH:C8	2:B:1:LGH:H19A	2.33	0.58
1:B:99:ARG:CZ	2:B:1:LGH:H22A	2.33	0.58
2:B:1:LGH:H19A	2:B:1:LGH:C14	2.34	0.57
1:B:408:ILE:HD12	1:B:419:PRO:HG2	1.87	0.56
1:A:141:SER:HB2	1:A:172:LEU:HD13	1.87	0.56
1:B:99:ARG:NE	2:B:1:LGH:H22A	2.21	0.55
1:A:305:ARG:CD	2:B:1:LGH:C4	2.85	0.55
1:B:305:ARG:NH1	2:B:2:LGH:H5	2.23	0.53
1:A:305:ARG:HD2	2:B:1:LGH:C4	2.38	0.53
2:B:2:LGH:H19A	2:B:2:LGH:C14	2.40	0.52
1:A:141:SER:OG	1:A:169:GLY:HA2	2.10	0.52
1:A:234:ALA:HA	1:A:440:MET:HE3	1.94	0.50
2:B:2:LGH:H19A	2:B:2:LGH:C8	2.42	0.49
1:A:309:ASN:ND2	2:B:1:LGH:H20A	2.28	0.49
1:A:305:ARG:HD3	2:B:1:LGH:C4	2.43	0.49
1:B:157:THR:HG21	1:B:191:MET:HG3	1.95	0.48
1:B:115:GLU:O	1:B:119:ILE:HG12	2.13	0.48
1:A:43:MET:HG2	1:A:63:ILE:HG23	1.94	0.48
1:A:221:ARG:O	1:A:225:ILE:HG12	2.14	0.48
1:A:311:GLN:NE2	1:B:309:ASN:HA	2.29	0.48
1:A:184:LYS:HD3	1:A:189:MET:CE	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:32:MET:O	1:B:36:ILE:HG12	2.15	0.46
1:B:422:ARG:N	1:B:423:PRO:HD2	2.31	0.45
1:A:340:ASP:HB3	1:A:343:VAL:HG13	1.99	0.44
1:A:190:VAL:HG13	1:A:256:LEU:HB3	2.00	0.43
1:B:190:VAL:HG21	1:B:260:ALA:HB2	2.00	0.43
1:A:154:LEU:HD13	1:A:161:PRO:HA	1.99	0.43
1:A:327:GLN:O	1:A:331:MET:HG3	2.20	0.42
1:B:160:ASP:HB3	1:B:163:MET:HG3	2.02	0.42
1:B:128:ASP:O	1:B:129:ALA:C	2.63	0.42
2:B:2:LGH:H17A	2:B:2:LGH:CL32	2.57	0.41
1:B:36:ILE:HD13	1:B:120:TRP:HH2	1.85	0.41
1:A:317:ARG:HB3	1:A:318:PRO:HD2	2.03	0.41
1:A:157:THR:HG21	1:A:191:MET:HG3	2.03	0.40
1:A:317:ARG:HG2	1:A:374:MET:HE1	2.04	0.40

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	420/499 (84%)	402 (96%)	16 (4%)	2 (0%)	24	39
1	B	409/499 (82%)	397 (97%)	11 (3%)	1 (0%)	43	60
All	All	829/998 (83%)	799 (96%)	27 (3%)	3 (0%)	30	45

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	129	ALA
1	A	129	ALA
1	A	403	SER

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	321/425 (76%)	308 (96%)	13 (4%)	28	47
1	B	282/425 (66%)	275 (98%)	7 (2%)	42	64
All	All	603/850 (71%)	583 (97%)	20 (3%)	33	55

All (20) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	33	ILE
1	A	57	ILE
1	A	108	LEU
1	A	134	THR
1	A	157	THR
1	A	183	VAL
1	A	257	ILE
1	A	343	VAL
1	A	365	ILE
1	A	389	ARG
1	A	416	ARG
1	A	440	MET
1	A	472	THR
1	B	33	ILE
1	B	67	VAL
1	B	96	ILE
1	B	109	ILE
1	B	164	CYS
1	B	305	ARG
1	B	348	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	124	ASN
1	A	309	ASN

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Mol	Chain	Res	Type
1	A	311	GLN
1	A	334	HIS
1	A	409	GLN
1	B	142	ASN
1	B	149	GLN
1	B	334	HIS
1	B	370	ASN
1	B	409	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](#)

2 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	LGH	B	2	-	35,35,35	1.02	2 (5%)	47,50,50	1.22	5 (10%)
2	LGH	B	1	-	35,35,35	0.98	2 (5%)	47,50,50	1.37	6 (12%)

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	LGH	B	2	-	-	0/20/32/32	0/4/4/4
2	LGH	B	1	-	-	0/20/32/32	0/4/4/4

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	2	LGH	C16-N25	3.32	1.40	1.34
2	B	1	LGH	C16-N25	3.04	1.39	1.34
2	B	2	LGH	C8-C14	-2.27	1.44	1.48
2	B	1	LGH	C8-C14	-2.12	1.44	1.48

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1	LGH	O31-C12-C8	3.65	121.86	116.55
2	B	1	LGH	O31-C12-C6	-3.55	118.32	124.30
2	B	1	LGH	C10-C13-CL32	3.37	123.96	120.24
2	B	2	LGH	O31-C12-C6	-3.28	118.77	124.30
2	B	2	LGH	O31-C12-C8	3.22	121.23	116.55
2	B	2	LGH	C4-C10-N24	-3.18	117.44	122.42
2	B	1	LGH	C4-C10-N24	-3.03	117.67	122.42
2	B	1	LGH	C5-C11-N26	2.48	121.50	119.34
2	B	1	LGH	O28-C16-C9	-2.41	115.24	119.94
2	B	2	LGH	O28-C16-C9	-2.29	115.48	119.94
2	B	2	LGH	C18-N24-C17	2.19	116.50	111.57

There are no chirality outliers.

There are no torsion outliers.

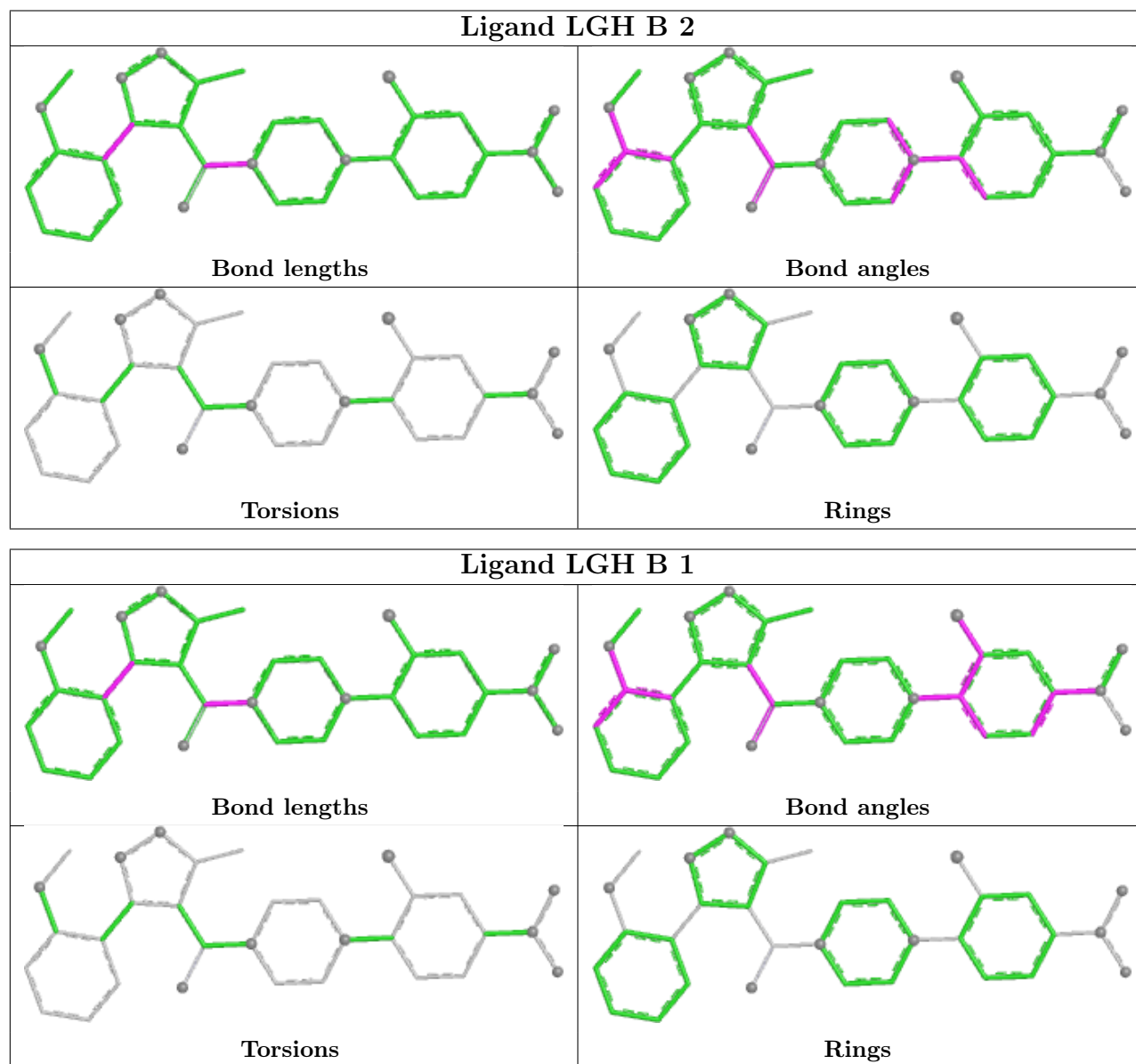
There are no ring outliers.

2 monomers are involved in 15 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	2	LGH	4	0
2	B	1	LGH	11	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 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 ⓘ

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	430/499 (86%)	0.33	16 (3%) 45 37	31, 44, 61, 69	0
1	B	423/499 (84%)	0.86	45 (10%) 11 9	33, 55, 82, 86	0
All	All	853/998 (85%)	0.59	61 (7%) 21 16	31, 49, 79, 86	0

All (61) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	246	ARG	4.5
1	B	22	ALA	4.0
1	B	445	ILE	3.5
1	A	401	ALA	3.5
1	B	441	ARG	3.5
1	B	406	ILE	3.5
1	B	343	VAL	3.4
1	B	479	PHE	3.3
1	A	212	GLY	3.2
1	B	476	VAL	3.2
1	A	368	ASN	3.1
1	A	491	ASP	3.0
1	A	400	ARG	3.0
1	B	456	VAL	3.0
1	B	215	THR	2.9
1	B	442	THR	2.9
1	B	444	ILE	2.9
1	B	244	GLU	2.8
1	B	198	LYS	2.7
1	B	383	SER	2.6
1	B	471	ALA	2.6
1	B	469	GLU	2.6
1	B	83	PRO	2.6
1	B	458	PHE	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	127	ASP	2.6
1	B	214	ARG	2.5
1	B	453	PRO	2.5
1	B	474	PRO	2.5
1	B	234	ALA	2.5
1	B	447	LEU	2.5
1	A	397	ASN	2.5
1	B	248	PRO	2.5
1	B	427	ALA	2.5
1	B	393	GLY	2.4
1	A	398	GLN	2.4
1	A	218	ALA	2.4
1	B	415	GLN	2.4
1	B	242	VAL	2.4
1	A	427	ALA	2.4
1	A	479	PHE	2.4
1	B	466	LEU	2.3
1	B	486	SER	2.3
1	B	418	LEU	2.3
1	B	265	ILE	2.3
1	B	157	THR	2.3
1	A	107	GLU	2.3
1	B	407	SER	2.3
1	B	262	SER	2.2
1	A	440	MET	2.2
1	B	88	ASP	2.2
1	B	426	MET	2.1
1	B	220	GLU	2.1
1	B	232	THR	2.1
1	B	236	ARG	2.1
1	A	109	ILE	2.1
1	B	112	ASP	2.1
1	B	428	ALA	2.1
1	B	237	THR	2.1
1	A	149	GLN	2.1
1	B	221	ARG	2.0
1	A	111	TYR	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 [i](#)

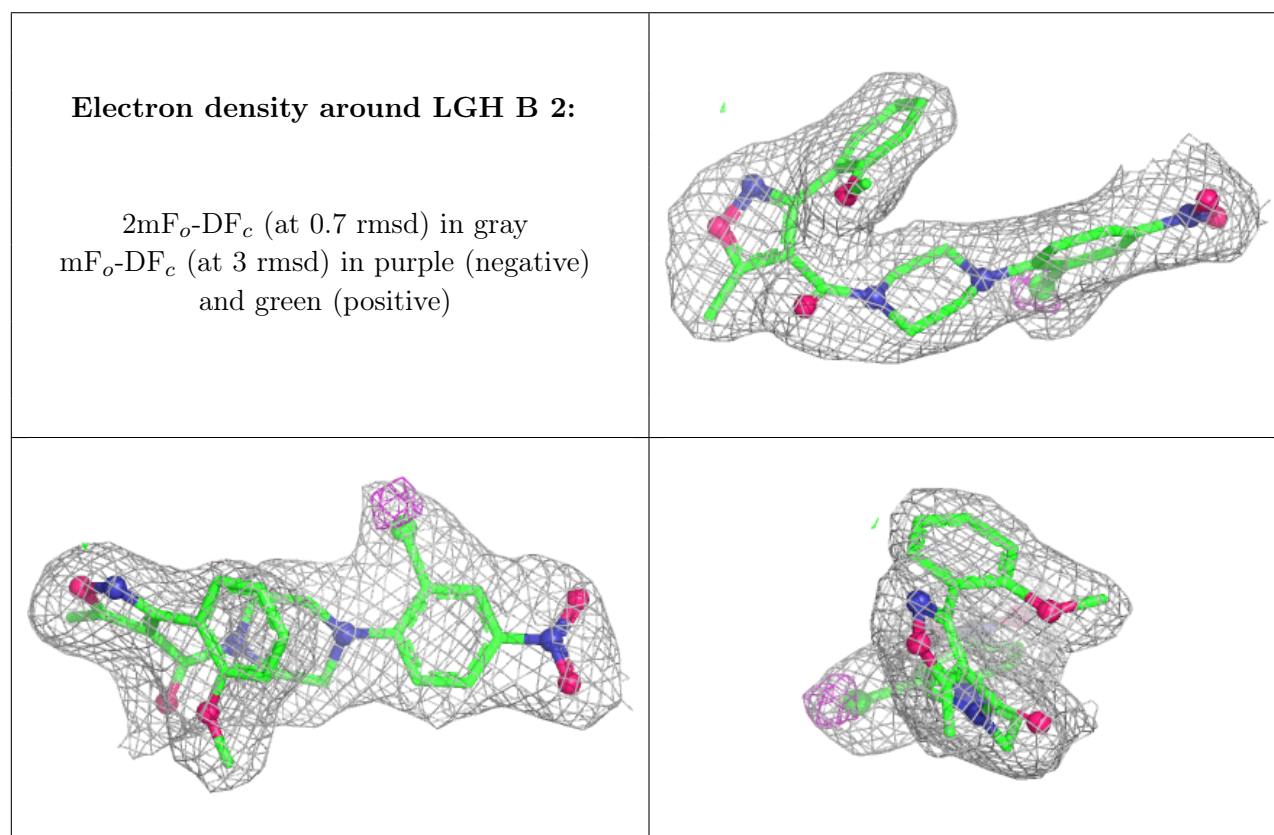
There are no oligosaccharides in this entry.

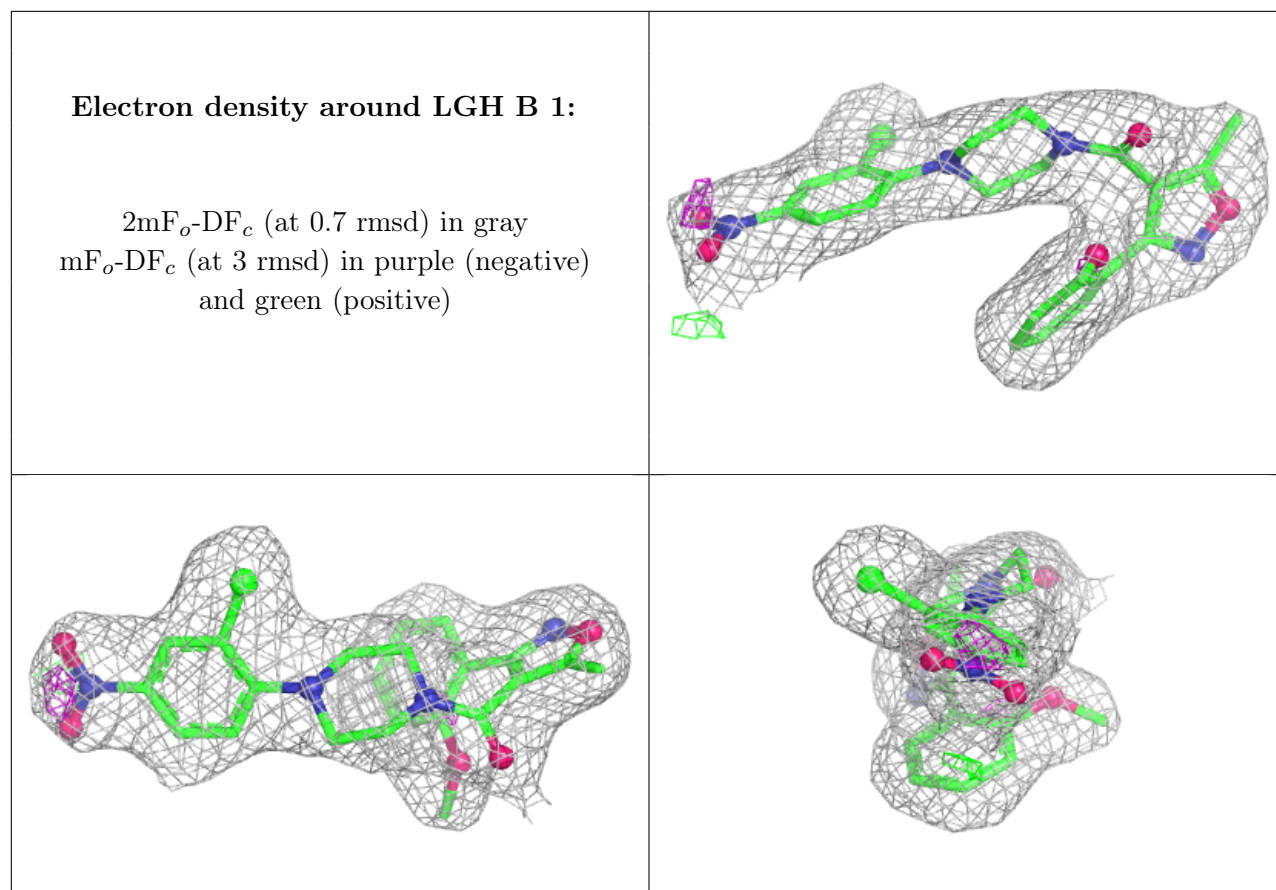
6.4 Ligands [i](#)

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
2	LGH	B	2	32/32	0.91	0.10	38,41,43,43	0
2	LGH	B	1	32/32	0.93	0.09	33,34,36,36	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 ⓘ

There are no such residues in this entry.