



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 27, 2026 – 03:29 PM UTC

PDB ID : 6SLZ / pdb_00006slz
Title : Crystal structure of human ROR gamma LBD in complex with a (quinolinoxymethyl)benzamide inverse agonist
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Deposited on : 2019-08-21
Resolution : 2.20 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](#) ①) 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

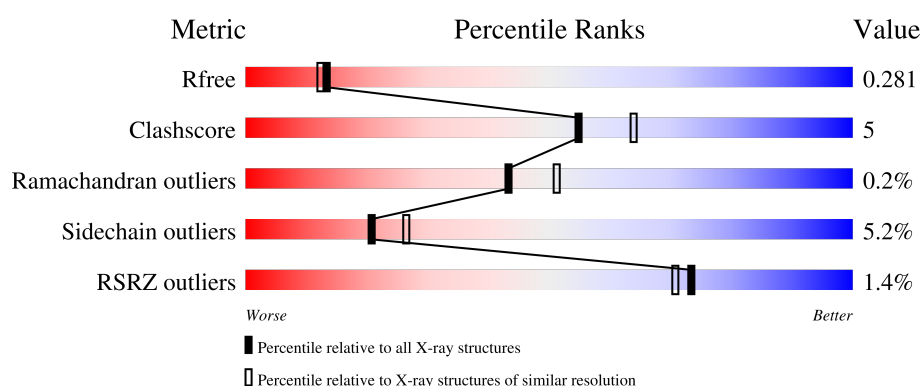
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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	6164 (2.20-2.20)
Clashscore	190562	6851 (2.20-2.20)
Ramachandran outliers	187476	6768 (2.20-2.20)
Sidechain outliers	187428	6769 (2.20-2.20)
RSRZ outliers	180081	6166 (2.20-2.20)

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	247	% 71% 16% • 12%
1	B	247	2% 77% 10% • 12%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3781 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.

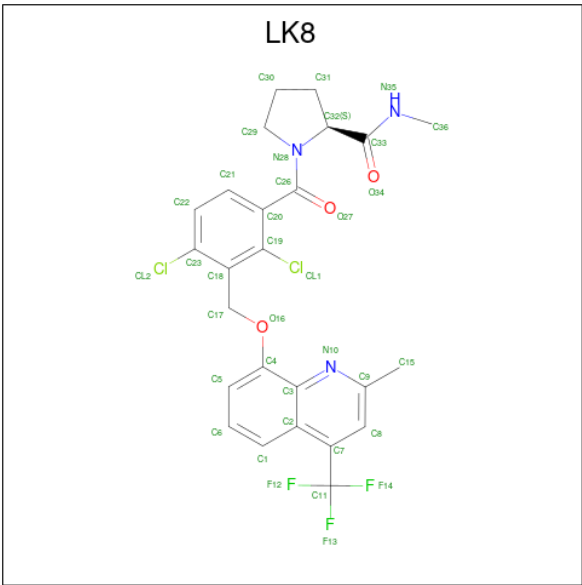
- Molecule 1 is a protein called Nuclear receptor ROR-gamma.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	218	Total	C	N	O	S	0	1	0
			1772	1124	319	314	15			
1	B	218	Total	C	N	O	S	0	1	0
			1772	1124	319	314	15			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	261	GLY	GLU	conflict	UNP P51449
A	262	SER	ALA	conflict	UNP P51449
A	263	HIS	PRO	conflict	UNP P51449
A	264	MET	TYR	conflict	UNP P51449
B	261	GLY	GLU	conflict	UNP P51449
B	262	SER	ALA	conflict	UNP P51449
B	263	HIS	PRO	conflict	UNP P51449
B	264	MET	TYR	conflict	UNP P51449

- Molecule 2 is (2 {S})-1-[2,4-bis(chloranyl)-3-[[2-methyl-4-(trifluoromethyl)quinolin-8-yl]oxy methyl]phenyl]carbonyl- {N}-methyl-pyrrolidine-2-carboxamide (CCD ID: LK8) (formula: C₂₅H₂₂Cl₂F₃N₃O₃) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total	C	Cl	F	N	O	0	0
			36	25	2	3	3	3		
2	B	1	Total	C	Cl	F	N	O	0	0
			36	25	2	3	3	3		

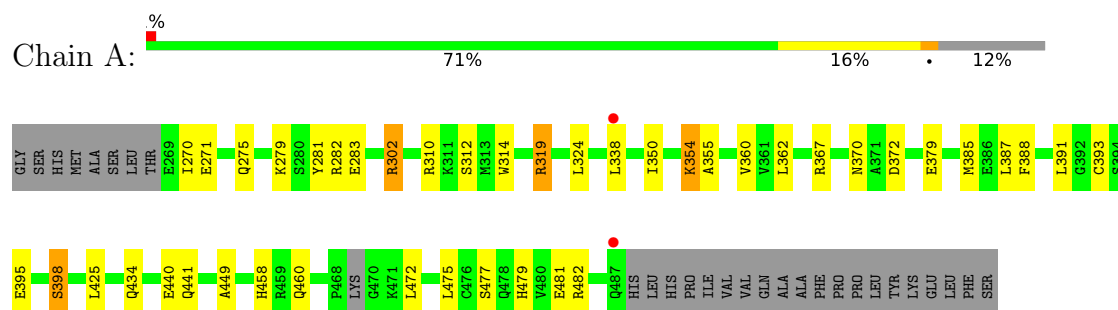
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	84	Total	O	0	0
			84	84		
3	B	81	Total	O	0	0
			81	81		

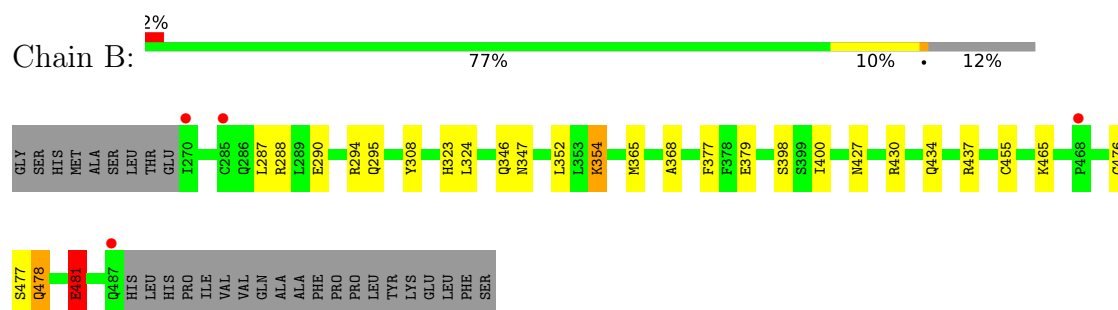
3 Residue-property plots [i](#)

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: Nuclear receptor ROR-gamma



• Molecule 1: Nuclear receptor ROR-gamma



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	125.67Å 56.33Å 80.92Å 90.00° 124.76° 90.00°	Depositor
Resolution (Å)	49.45 – 2.20 49.45 – 2.20	Depositor EDS
% Data completeness (in resolution range)	98.9 (49.45-2.20) 99.3 (49.45-2.20)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	0.01	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.41 (at 2.20Å)	Xtriage
Refinement program	REFMAC 5.8.0253	Depositor
R, R_{free}	0.206 , 0.278 0.211 , 0.281	Depositor DCC
R_{free} test set	1185 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	38.6	Xtriage
Anisotropy	0.624	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 42.0	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	0.95	EDS
Total number of atoms	3781	wwPDB-VP
Average B, all atoms (Å ²)	55.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.14% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: LK8

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	1.01	0/1809	1.49	5/2432 (0.2%)
1	B	1.03	0/1810	1.48	4/2435 (0.2%)
All	All	1.02	0/3619	1.49	9/4867 (0.2%)

There are no bond length outliers.

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	477	SER	CA-C-N	5.59	128.03	120.38
1	A	477	SER	C-N-CA	5.59	128.03	120.38
1	B	323	HIS	CA-C-N	5.44	127.51	120.44
1	B	323	HIS	C-N-CA	5.44	127.51	120.44
1	B	481	GLU	CA-C-N	5.33	127.96	120.28
1	B	481	GLU	C-N-CA	5.33	127.96	120.28
1	A	319	ARG	CB-CA-C	5.32	119.89	110.85
1	A	440	GLU	CA-C-N	5.07	127.03	120.44
1	A	440	GLU	C-N-CA	5.07	127.03	120.44

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	1772	0	1762	22	0
1	B	1772	0	1763	16	0
2	A	36	0	0	0	0
2	B	36	0	0	0	0
3	A	84	0	0	1	1
3	B	81	0	0	2	0
All	All	3781	0	3525	34	1

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 (34) 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:352:LEU:HD12	3:B:756:HOH:O	1.62	0.99
1:B:455[A]:CYS:SG	3:B:779:HOH:O	2.45	0.72
1:B:477:SER:O	1:B:478:GLN:HB3	1.91	0.69
1:A:302:ARG:HH11	1:A:302:ARG:HG3	1.59	0.68
1:A:319:ARG:HD3	1:A:379:GLU:OE2	1.94	0.66
1:A:362:LEU:HD23	1:A:472:LEU:HD23	1.83	0.61
1:B:477:SER:O	1:B:478:GLN:CB	2.54	0.55
1:B:347:ASN:ND2	1:B:434:GLN:HG2	2.21	0.55
1:A:350:ILE:O	1:A:354:LYS:HG3	2.07	0.54
1:B:294:ARG:NH1	1:B:295:GLN:HE21	2.07	0.52
1:A:281:TYR:OH	1:A:367:ARG:HD2	2.10	0.52
1:A:302:ARG:HG3	1:A:302:ARG:NH1	2.23	0.51
1:A:388:PHE:HB3	1:A:391:LEU:HD12	1.94	0.50
1:A:393[B]:CYS:SG	1:A:479:HIS:CE1	3.08	0.47
1:A:354:LYS:HE2	1:B:481:GLU:HB2	1.97	0.47
1:A:482:ARG:HA	1:B:354:LYS:HB2	1.97	0.47
1:B:288:ARG:NH2	1:B:290:GLU:OE1	2.44	0.46
1:A:314:TRP:HB2	1:B:346:GLN:NE2	2.31	0.46
1:B:368:ALA:HB1	1:B:377:PHE:HB3	1.96	0.46
1:B:365:MET:HE1	1:B:400:ILE:CG2	2.46	0.46
1:A:270:ILE:HG23	1:A:449:ALA:HB2	1.99	0.45
1:A:370:ASN:OD1	1:A:372:ASP:HB2	2.17	0.45
1:B:427:ASN:O	1:B:430:ARG:HG2	2.18	0.43
1:A:302:ARG:HG3	1:A:302:ARG:H	1.67	0.43
1:A:354:LYS:HD3	1:A:355:ALA:N	2.34	0.43
1:A:360:VAL:HG21	1:A:425:LEU:HD13	2.02	0.42
1:A:312:SER:HB2	1:B:346:GLN:HE22	1.84	0.42
1:A:385:MET:HE1	1:A:398:SER:OG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:308:TYR:OH	1:B:379:GLU:OE1	2.31	0.41
1:B:294:ARG:NH1	1:B:295:GLN:NE2	2.69	0.41
1:A:271:GLU:O	1:A:275:GLN:HG2	2.21	0.41
1:A:441:GLN:CD	3:A:713:HOH:O	2.64	0.40
1:A:458:HIS:HA	1:A:460:GLN:OE1	2.20	0.40
1:A:279:LYS:NZ	1:A:283:GLU:OE2	2.55	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:780:HOH:O	3:A:780:HOH:O[2_656]	1.44	0.76

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	215/247 (87%)	209 (97%)	6 (3%)	0	100	100
1	B	217/247 (88%)	209 (96%)	7 (3%)	1 (0%)	24	27
All	All	432/494 (87%)	418 (97%)	13 (3%)	1 (0%)	43	51

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	478	GLN

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	192/220 (87%)	180 (94%)	12 (6%)	16	19
1	B	192/220 (87%)	184 (96%)	8 (4%)	26	36
All	All	384/440 (87%)	364 (95%)	20 (5%)	21	26

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

Mol	Chain	Res	Type
1	A	282	ARG
1	A	302	ARG
1	A	310	ARG
1	A	324	LEU
1	A	338	LEU
1	A	354	LYS
1	A	387	LEU
1	A	395	GLU
1	A	398	SER
1	A	434	GLN
1	A	475	LEU
1	A	481	GLU
1	B	287	LEU
1	B	324	LEU
1	B	354	LYS
1	B	398	SER
1	B	437	ARG
1	B	465	LYS
1	B	476	CYS
1	B	481	GLU

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	286	GLN
1	A	329	GLN
1	A	479	HIS
1	B	295	GLN
1	B	298	ASN
1	B	346	GLN
1	B	411	HIS

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Mol	Chain	Res	Type
1	B	434	GLN
1	B	451	HIS
1	B	452	HIS

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	LK8	A	601	-	39,39,39	1.14	4 (10%)	58,58,58	3.48	22 (37%)
2	LK8	B	601	-	39,39,39	1.20	3 (7%)	58,58,58	3.28	24 (41%)

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	LK8	A	601	-	-	2/25/35/35	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	LK8	B	601	-	-	3/25/35/35	0/4/4/4

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	601	LK8	C20-C19	-4.31	1.35	1.39
2	A	601	LK8	C23-CL2	3.20	1.81	1.73
2	A	601	LK8	C19-CL1	3.01	1.79	1.72
2	A	601	LK8	C4-C3	-2.88	1.38	1.42
2	B	601	LK8	C4-C3	-2.66	1.39	1.42
2	A	601	LK8	C7-C2	-2.60	1.39	1.43
2	B	601	LK8	C19-CL1	2.35	1.77	1.72

All (46) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	601	LK8	F14-C11-C7	-14.16	95.83	112.30
2	A	601	LK8	F14-C11-C7	-12.69	97.55	112.30
2	A	601	LK8	F13-C11-C7	-12.09	98.24	112.30
2	A	601	LK8	F12-C11-C7	-10.13	100.52	112.30
2	A	601	LK8	C29-N28-C32	-8.09	99.31	112.01
2	B	601	LK8	F12-C11-C7	-7.87	103.15	112.30
2	B	601	LK8	C31-C32-C33	7.74	127.67	111.21
2	B	601	LK8	F13-C11-C7	-7.47	103.61	112.30
2	B	601	LK8	C29-N28-C32	-7.10	100.86	112.01
2	A	601	LK8	C31-C32-C33	5.62	123.15	111.21
2	B	601	LK8	C19-C20-C26	4.62	130.14	122.54
2	A	601	LK8	C19-C20-C26	4.34	129.68	122.54
2	B	601	LK8	C23-C18-C19	4.07	121.56	115.74
2	B	601	LK8	C21-C20-C26	-4.05	111.34	119.22
2	A	601	LK8	C20-C26-N28	-3.74	112.73	117.85
2	A	601	LK8	C17-O16-C4	3.63	122.44	117.49
2	A	601	LK8	C21-C20-C26	-3.61	112.19	119.22
2	A	601	LK8	F13-C11-F12	3.47	118.30	105.77
2	B	601	LK8	F12-C11-F14	3.42	118.11	105.77
2	A	601	LK8	F12-C11-F14	3.41	118.08	105.77
2	B	601	LK8	C30-C31-C32	-3.31	97.25	104.14
2	A	601	LK8	C32-C33-N35	3.25	121.71	116.74
2	A	601	LK8	C22-C23-C18	-3.05	118.58	122.53
2	A	601	LK8	F13-C11-F14	3.04	116.75	105.77
2	A	601	LK8	O27-C26-N28	2.98	126.42	121.62
2	B	601	LK8	F13-C11-F12	2.94	116.39	105.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	601	LK8	C23-C18-C19	2.93	119.92	115.74
2	B	601	LK8	C20-C26-N28	-2.83	113.97	117.85
2	A	601	LK8	C36-N35-C33	2.76	127.02	122.21
2	B	601	LK8	C11-C7-C2	2.70	122.53	120.29
2	B	601	LK8	C30-C29-N28	-2.69	98.60	103.24
2	B	601	LK8	C32-C33-N35	2.67	120.81	116.74
2	A	601	LK8	C32-N28-C26	2.66	132.06	121.34
2	B	601	LK8	C31-C32-N28	-2.63	99.15	103.02
2	B	601	LK8	F13-C11-F14	2.57	115.06	105.77
2	B	601	LK8	C20-C19-C18	-2.55	119.61	122.92
2	A	601	LK8	C18-C23-CL2	2.49	123.98	119.60
2	A	601	LK8	C33-C32-N28	2.40	119.03	112.50
2	B	601	LK8	C22-C23-C18	-2.36	119.47	122.53
2	B	601	LK8	C33-C32-N28	2.30	118.78	112.50
2	B	601	LK8	C8-C7-C2	-2.21	116.43	119.65
2	B	601	LK8	C32-N28-C26	2.21	130.25	121.34
2	A	601	LK8	C30-C31-C32	-2.11	99.76	104.14
2	A	601	LK8	O34-C33-C32	-2.06	115.72	120.69
2	B	601	LK8	C36-N35-C33	2.05	125.78	122.21
2	B	601	LK8	C7-C2-C3	2.02	119.47	117.42

There are no chirality outliers.

All (5) torsion outliers are listed below:

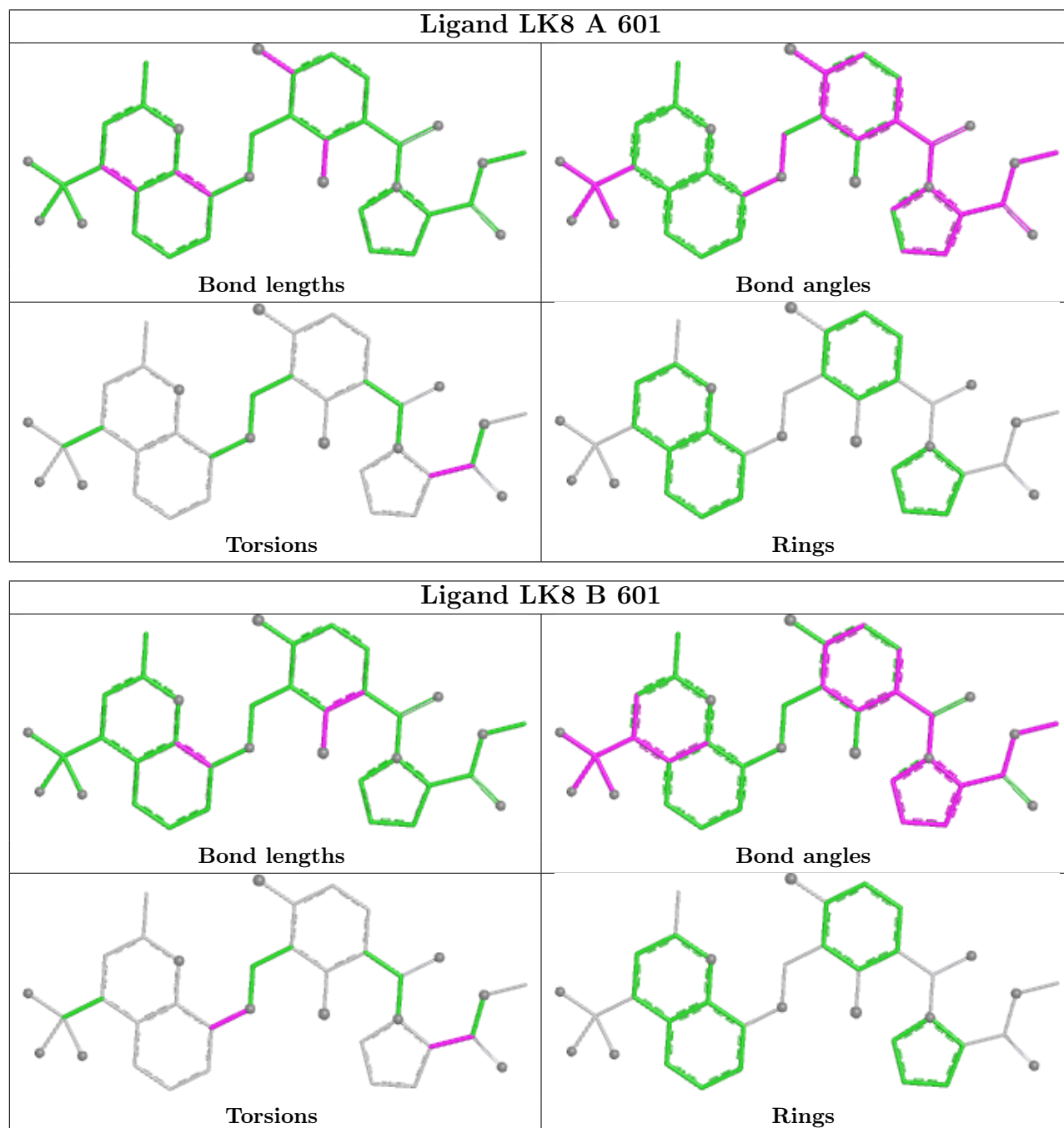
Mol	Chain	Res	Type	Atoms
2	A	601	LK8	C31-C32-C33-O34
2	B	601	LK8	C31-C32-C33-O34
2	A	601	LK8	C31-C32-C33-N35
2	B	601	LK8	C31-C32-C33-N35
2	B	601	LK8	C3-C4-O16-C17

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 ⓘ

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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	218/247 (88%)	0.11	2 (0%) 81 79	34, 51, 84, 101	1 (0%)
1	B	218/247 (88%)	0.05	4 (1%) 67 64	32, 52, 82, 103	1 (0%)
All	All	436/494 (88%)	0.08	6 (1%) 73 71	32, 52, 83, 103	2 (0%)

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	487	GLN	3.4
1	B	270	ILE	3.3
1	A	338	LEU	2.4
1	A	487	GLN	2.2
1	B	285	CYS	2.0
1	B	468	PRO	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](#)

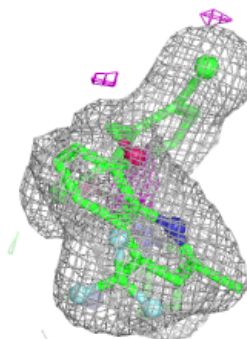
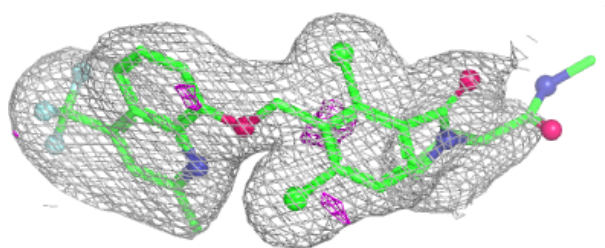
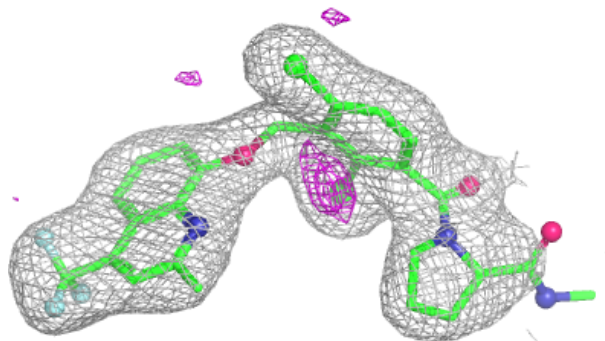
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists 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
2	LK8	A	601	36/36	0.93	0.10	47,54,89,92	0
2	LK8	B	601	36/36	0.95	0.08	42,60,68,79	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.

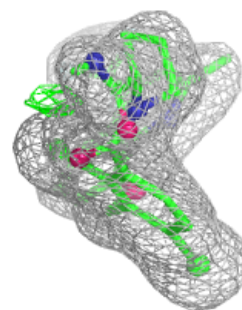
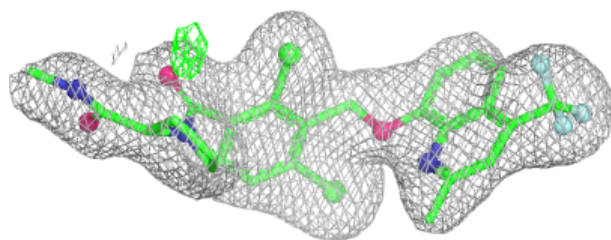
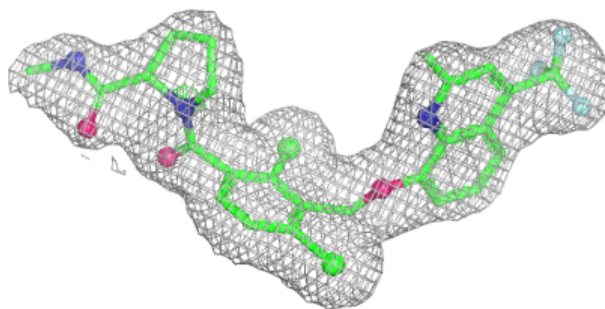
Electron density around LK8 A 601:

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 LK8 B 601:

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



6.5 Other polymers [i](#)

There are no such residues in this entry.