



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 08:38 PM UTC

PDB ID : 8FAV / pdb_00008fav
Title : HUMAN RETENOID-RELATED ORPHAN RECEPTOR-GAMMA (RORC2) LIGAND-BINDING DOMAIN IN COMPLEX WITH COMPOUND 5 ANDINDAZOLE ACID BOUND IN H12-POCKET
Authors : Vajdos, F.F.
Deposited on : 2022-11-28
Resolution : 1.85 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

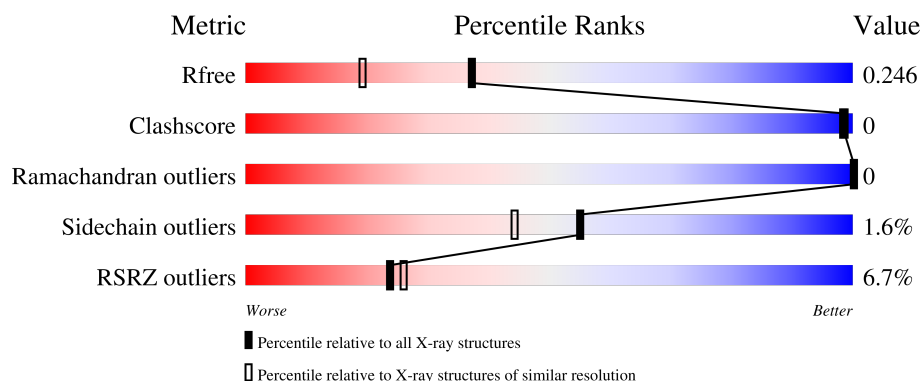
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.85 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	3428 (1.86-1.86)
Clashscore	190562	3579 (1.86-1.86)
Ramachandran outliers	187476	3553 (1.86-1.86)
Sidechain outliers	187428	3553 (1.86-1.86)
RSRZ outliers	180081	3429 (1.86-1.86)

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	262	5% 89% 5% 5%
1	B	262	8% 90% • 5%

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 4523 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.

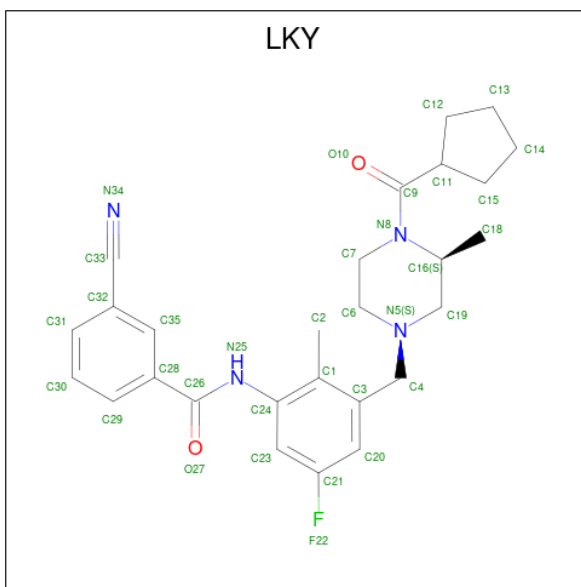
- Molecule 1 is a protein called Nuclear receptor ROR-gamma.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	248	Total	C	N	O	S	0	1	0
			2037	1299	364	362	12			
1	B	248	Total	C	N	O	S	0	3	0
			2057	1311	370	364	12			

There are 10 discrepancies between the modelled and reference sequences:

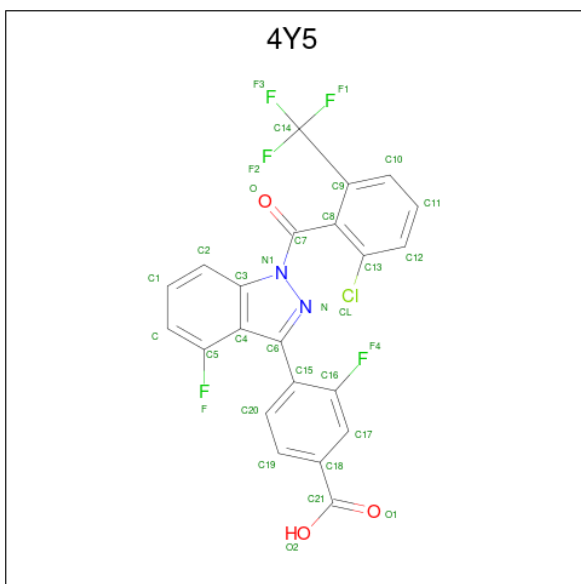
Chain	Residue	Modelled	Actual	Comment	Reference
A	256	SER	-	expression tag	UNP P51449
A	257	MET	-	expression tag	UNP P51449
A	258	PRO	-	expression tag	UNP P51449
A	278	SER	CYS	engineered mutation	UNP P51449
A	345	SER	CYS	engineered mutation	UNP P51449
B	256	SER	-	expression tag	UNP P51449
B	257	MET	-	expression tag	UNP P51449
B	258	PRO	-	expression tag	UNP P51449
B	278	SER	CYS	engineered mutation	UNP P51449
B	345	SER	CYS	engineered mutation	UNP P51449

- Molecule 2 is 3-cyano-N-(3-{{(3S)-4-(cyclopentanecarbonyl)-3-methylpiperazin-1-yl}methyl}-5-fluoro-2-methylphenyl)benzamide (CCD ID: LKY) (formula: C₂₇H₃₁FN₄O₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	F	N	O	0	0
			34	27	1	4	2		
2	B	1	Total	C	F	N	O	0	0
			34	27	1	4	2		

- Molecule 3 is 4-{1-[2-chloro-6-(trifluoromethyl)benzoyl]-4-fluoro-1H-indazol-3-yl}-3-fluorobenzoic acid (CCD ID: 4Y5) (formula: $C_{22}H_{10}ClF_5N_2O_3$).



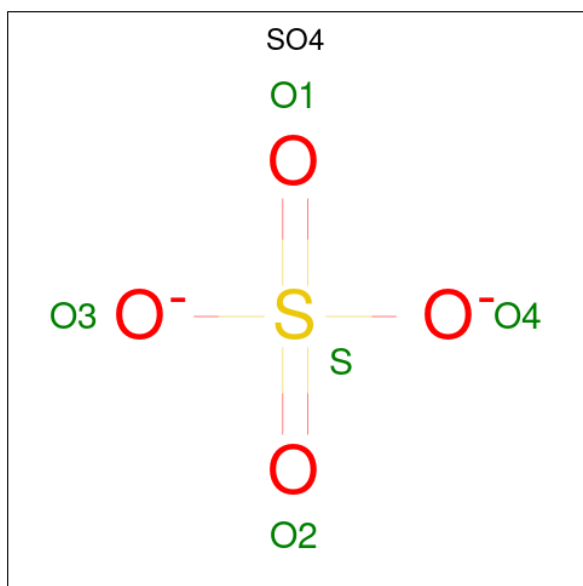
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
3	A	1	Total	C	Cl	F	N	O	0	0
			33	22	1	5	2	3		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	B	1	Total	C	Cl	F	N	O	
			33	22	1	5	2	3	0

- Molecule 4 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	O	S		
			5	4	1	0	0

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	162	Total	O		
			162	162	0	0
5	B	128	Total	O		
			128	128	0	0

3 Residue-property plots [i](#)

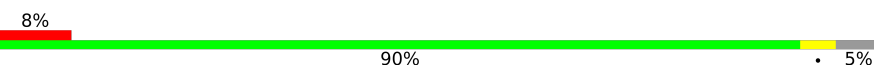
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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.

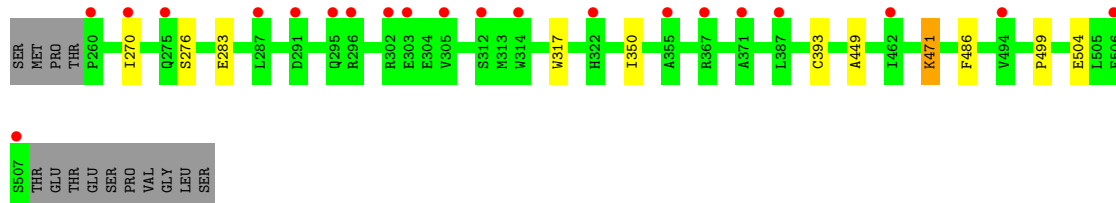
- Molecule 1: Nuclear receptor ROR-gamma

Chain A: 



- Molecule 1: Nuclear receptor ROR-gamma

Chain B: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	47.09Å 96.92Å 56.91Å 90.00° 91.26° 90.00°	Depositor
Resolution (Å)	56.90 – 1.85 56.90 – 1.85	Depositor EDS
% Data completeness (in resolution range)	97.0 (56.90-1.85) 97.0 (56.90-1.85)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.95 (at 1.84Å)	Xtriage
Refinement program	REFMAC v5.8.0073	Depositor
R, R_{free}	0.192 , 0.233 (Not available) , 0.246	Depositor DCC
R_{free} test set	1964 reflections (4.50%)	wwPDB-VP
Wilson B-factor (Å ²)	25.6	Xtriage
Anisotropy	0.121	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 34.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.068 for h,-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4523	wwPDB-VP
Average B, all atoms (Å ²)	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.12% 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: LKY, SO4, 4Y5

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	1.49	8/2083 (0.4%)	0.59	0/2807
1	B	1.48	4/2105 (0.2%)	0.62	0/2837
All	All	1.48	12/4188 (0.3%)	0.61	0/5644

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	471	LYS	CA-CB	7.14	1.64	1.53
1	A	499	PRO	CA-C	6.56	1.58	1.52
1	A	283	GLU	C-O	-5.93	1.16	1.24
1	A	333	GLU	N-CA	5.64	1.53	1.46
1	A	372	ASP	N-CA	5.50	1.52	1.46
1	B	283	GLU	C-O	-5.49	1.16	1.24
1	A	296	ARG	N-CA	5.34	1.52	1.46
1	A	424	VAL	CA-C	5.22	1.59	1.52
1	B	499	PRO	CA-C	5.14	1.56	1.52
1	A	269	GLU	C-O	-5.05	1.18	1.24
1	B	276	SER	CA-C	5.01	1.59	1.52
1	A	437	ARG	N-CA	5.00	1.52	1.46

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	2037	0	2036	1	0
1	B	2057	0	2049	3	0
2	A	34	0	0	0	0
2	B	34	0	0	0	0
3	A	33	0	9	0	0
3	B	33	0	9	0	0
4	A	5	0	0	0	0
5	A	162	0	0	0	0
5	B	128	0	0	0	0
All	All	4523	0	4103	4	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 0.

All (4) 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:270:ILE:HG23	1:A:449:ALA:HA	1.91	0.53
1:B:350:ILE:HG21	1:B:504:GLU:HG3	1.96	0.47
1:B:270:ILE:HG23	1:B:449:ALA:HA	2.03	0.41
1:B:317:TRP:CE2	1:B:486:PHE:HB3	2.56	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	247/262 (94%)	244 (99%)	3 (1%)	0	100	100
1	B	249/262 (95%)	246 (99%)	3 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	496/524 (95%)	490 (99%)	6 (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	222/234 (95%)	217 (98%)	5 (2%)	44	30
1	B	224/234 (96%)	222 (99%)	2 (1%)	70	64
All	All	446/468 (95%)	439 (98%)	7 (2%)	55	44

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	267	LEU
1	A	434	GLN
1	A	437	ARG
1	A	473	ARG
1	A	482	ARG
1	B	393	CYS
1	B	471	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	295	GLN
1	A	298	ASN
1	A	411	HIS
1	A	434	GLN
1	A	488	HIS
1	B	347	ASN
1	B	370	ASN
1	B	411	HIS

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Mol	Chain	Res	Type
1	B	478	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](#)

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	$\# Z > 2$
4	SO4	A	603	-	4,4,4	0.31	0	6,6,6	0.08	0
3	4Y5	B	602	-	36,36,36	2.16	16 (44%)	48,55,55	1.84	9 (18%)
2	LKY	A	601	-	37,37,37	1.86	9 (24%)	49,52,52	1.01	3 (6%)
3	4Y5	A	602	-	36,36,36	2.28	18 (50%)	48,55,55	1.80	8 (16%)
2	LKY	B	601	-	37,37,37	2.32	11 (29%)	49,52,52	1.02	2 (4%)

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	4Y5	B	602	-	-	0/22/22/22	0/4/4/4
3	4Y5	A	602	-	-	0/22/22/22	0/4/4/4
2	LKY	A	601	-	-	0/22/42/42	0/4/4/4
2	LKY	B	601	-	-	1/22/42/42	0/4/4/4

All (54) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	601	LKY	C16-N8	8.20	1.56	1.47
3	A	602	4Y5	C4-C5	5.14	1.47	1.39
2	A	601	LKY	C16-N8	5.01	1.53	1.47
2	A	601	LKY	C7-N8	4.15	1.54	1.47
3	B	602	4Y5	C10-C9	4.15	1.44	1.39
2	B	601	LKY	C7-N8	4.04	1.53	1.47
3	B	602	4Y5	C8-C13	4.03	1.45	1.39
2	B	601	LKY	C3-C1	3.95	1.45	1.40
2	B	601	LKY	C29-C28	3.94	1.45	1.39
3	B	602	4Y5	O1-C21	3.93	1.34	1.22
3	A	602	4Y5	C19-C18	3.89	1.45	1.39
3	A	602	4Y5	C6-N	-3.81	1.28	1.33
2	A	601	LKY	C19-N5	3.51	1.52	1.46
2	A	601	LKY	C29-C28	3.47	1.44	1.39
3	A	602	4Y5	C17-C18	3.44	1.44	1.39
3	B	602	4Y5	C20-C15	3.36	1.45	1.39
3	B	602	4Y5	C19-C18	3.34	1.44	1.39
3	A	602	4Y5	C8-C13	3.34	1.44	1.39
2	A	601	LKY	C30-C29	3.31	1.44	1.38
2	B	601	LKY	C30-C29	3.29	1.44	1.38
3	A	602	4Y5	C8-C9	3.20	1.47	1.41
2	B	601	LKY	C19-N5	3.11	1.51	1.46
2	B	601	LKY	C23-C21	3.08	1.42	1.37
3	A	602	4Y5	C20-C15	3.07	1.44	1.39
3	B	602	4Y5	C15-C16	2.97	1.42	1.38
2	B	601	LKY	C2-C1	2.90	1.57	1.51
2	B	601	LKY	C23-C24	2.88	1.44	1.39
3	B	602	4Y5	C2-C3	2.84	1.44	1.39
3	A	602	4Y5	C10-C9	2.77	1.42	1.39
3	B	602	4Y5	C6-N	-2.76	1.30	1.33
3	B	602	4Y5	O2-C21	-2.70	1.22	1.30
3	A	602	4Y5	C2-C3	2.67	1.43	1.39
3	A	602	4Y5	C20-C19	2.66	1.43	1.38
3	A	602	4Y5	C18-C21	-2.66	1.43	1.49
2	A	601	LKY	C23-C24	2.57	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	602	4Y5	C15-C16	2.49	1.42	1.38
3	B	602	4Y5	C4-C5	2.49	1.43	1.39
2	B	601	LKY	C31-C32	2.48	1.44	1.39
3	A	602	4Y5	C14-C9	2.47	1.55	1.50
3	B	602	4Y5	C17-C18	2.44	1.43	1.39
2	A	601	LKY	C3-C1	2.44	1.43	1.40
3	B	602	4Y5	C18-C21	-2.39	1.44	1.49
3	B	602	4Y5	C11-C12	2.34	1.42	1.38
2	A	601	LKY	C23-C21	2.31	1.41	1.37
3	B	602	4Y5	C7-N1	-2.30	1.35	1.40
3	B	602	4Y5	C11-C10	2.29	1.42	1.38
3	A	602	4Y5	C11-C12	2.22	1.42	1.38
2	A	601	LKY	C2-C1	2.18	1.56	1.51
2	B	601	LKY	C11-C9	2.17	1.54	1.51
3	B	602	4Y5	C4-C6	2.14	1.49	1.44
3	A	602	4Y5	C-C5	2.05	1.42	1.37
3	A	602	4Y5	C15-C6	-2.05	1.45	1.49
3	A	602	4Y5	C1-C2	2.01	1.42	1.38
3	A	602	4Y5	C11-C10	2.00	1.42	1.38

All (22) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	602	4Y5	C6-N-N1	6.31	111.78	107.40
3	B	602	4Y5	C6-N-N1	6.29	111.77	107.40
3	A	602	4Y5	C3-N1-N	-5.86	109.25	111.07
3	B	602	4Y5	C3-N1-N	-5.77	109.28	111.07
3	B	602	4Y5	C4-C6-N	-3.93	107.49	110.19
3	A	602	4Y5	C20-C15-C16	3.93	121.06	116.70
3	B	602	4Y5	C20-C15-C16	3.26	120.31	116.70
3	A	602	4Y5	C4-C6-N	-2.93	108.18	110.19
3	B	602	4Y5	C17-C16-C15	-2.75	120.44	123.48
2	A	601	LKY	C23-C21-C20	-2.63	120.30	123.50
2	A	601	LKY	C7-N8-C16	2.47	118.84	114.75
2	B	601	LKY	C7-N8-C16	2.47	118.83	114.75
2	B	601	LKY	C23-C21-C20	-2.41	120.57	123.50
3	B	602	4Y5	O2-C21-C18	2.40	121.00	114.84
2	A	601	LKY	C6-N5-C19	2.33	113.41	109.53
3	A	602	4Y5	C17-C16-C15	-2.30	120.94	123.48
3	A	602	4Y5	C8-C7-N1	2.28	118.94	116.28
3	A	602	4Y5	C15-C6-N	2.24	124.14	119.32
3	B	602	4Y5	C15-C6-N	2.21	124.06	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	602	4Y5	C8-C7-N1	2.18	118.82	116.28
3	A	602	4Y5	C-C5-C4	-2.09	119.65	123.48
3	B	602	4Y5	C13-C8-C7	-2.05	118.73	121.19

There are no chirality outliers.

All (1) torsion outliers are listed below:

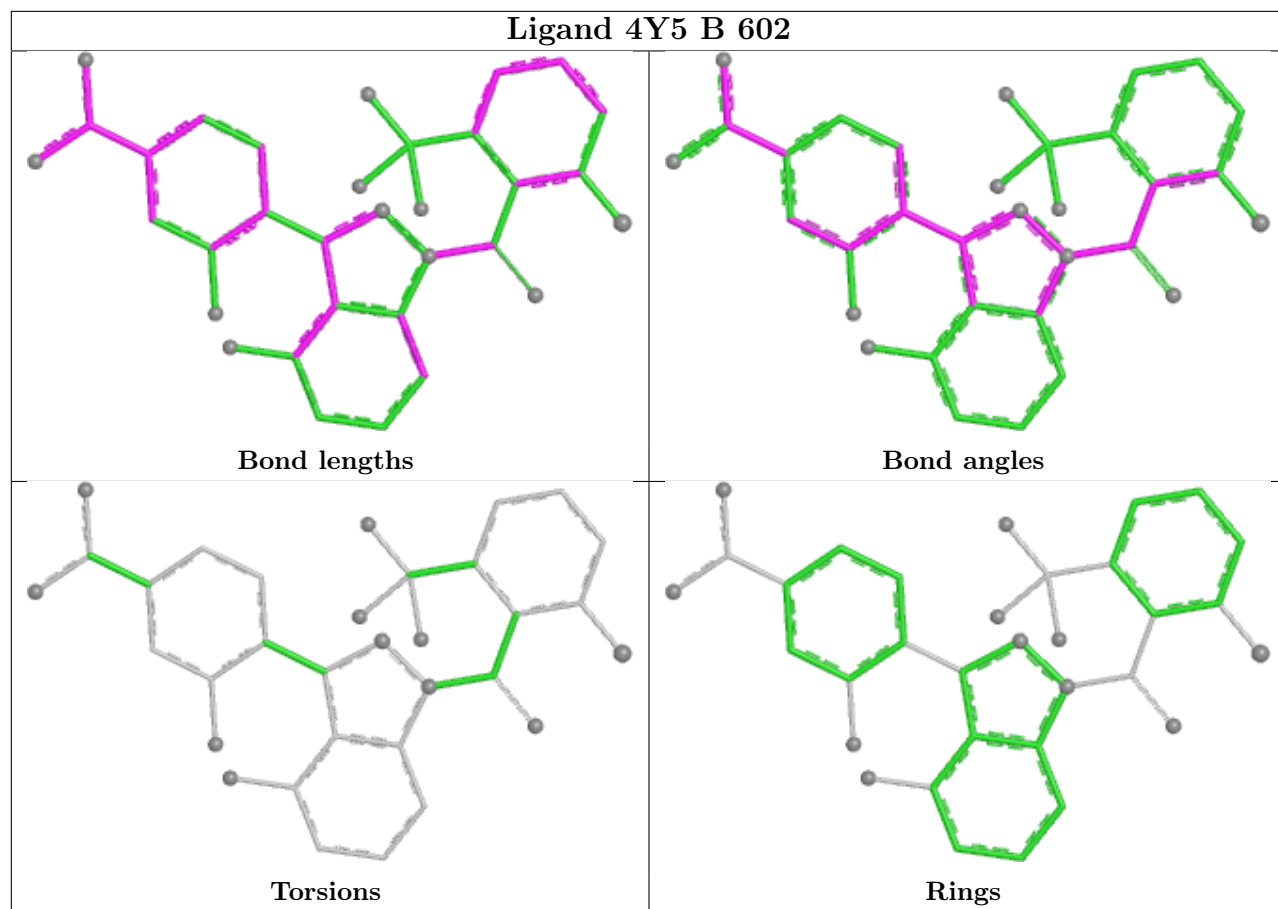
Mol	Chain	Res	Type	Atoms
2	B	601	LKY	C23-C24-N25-C26

There are no ring outliers.

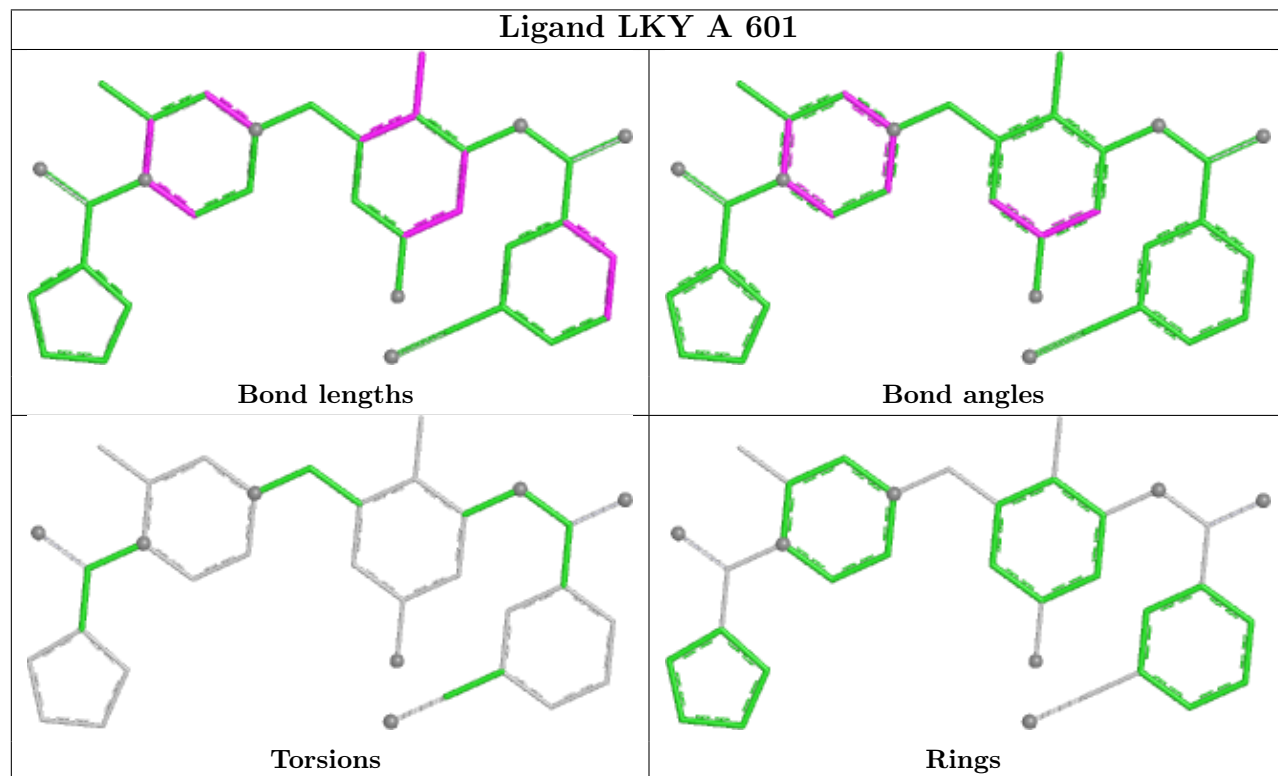
No monomer is involved in short contacts.

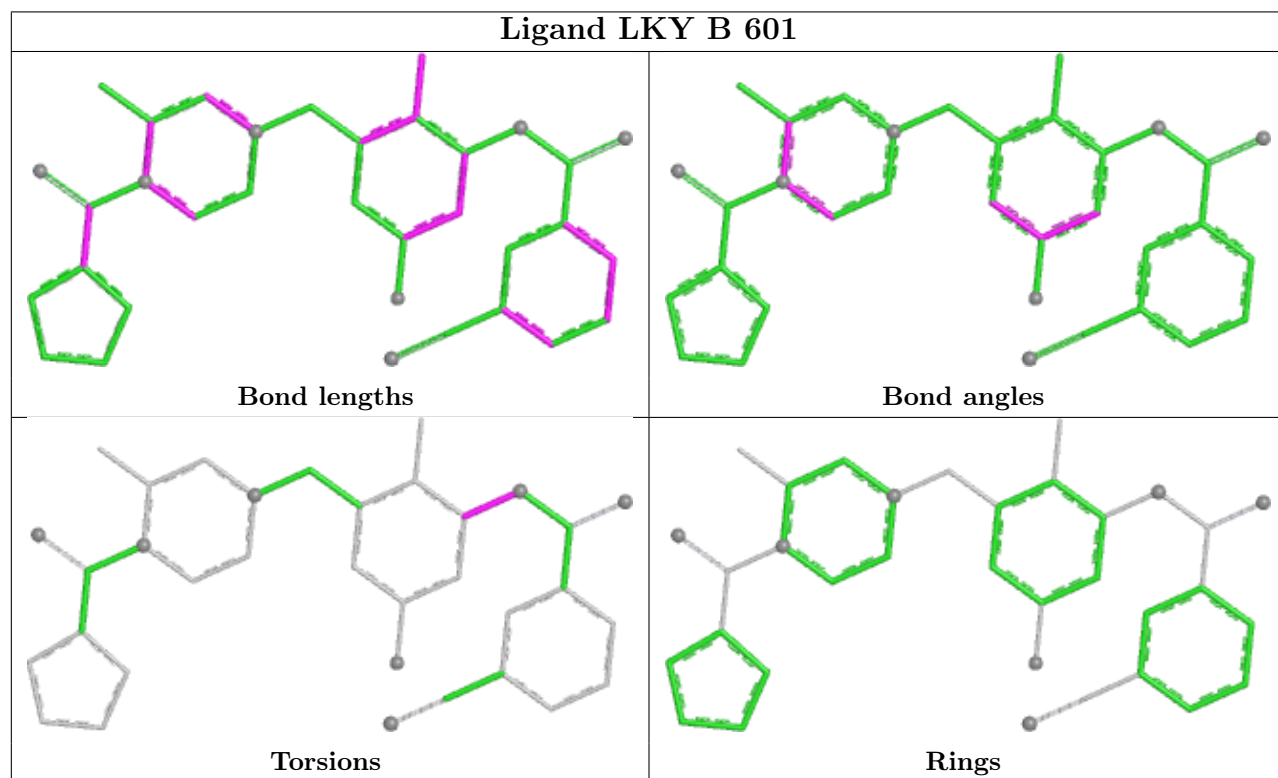
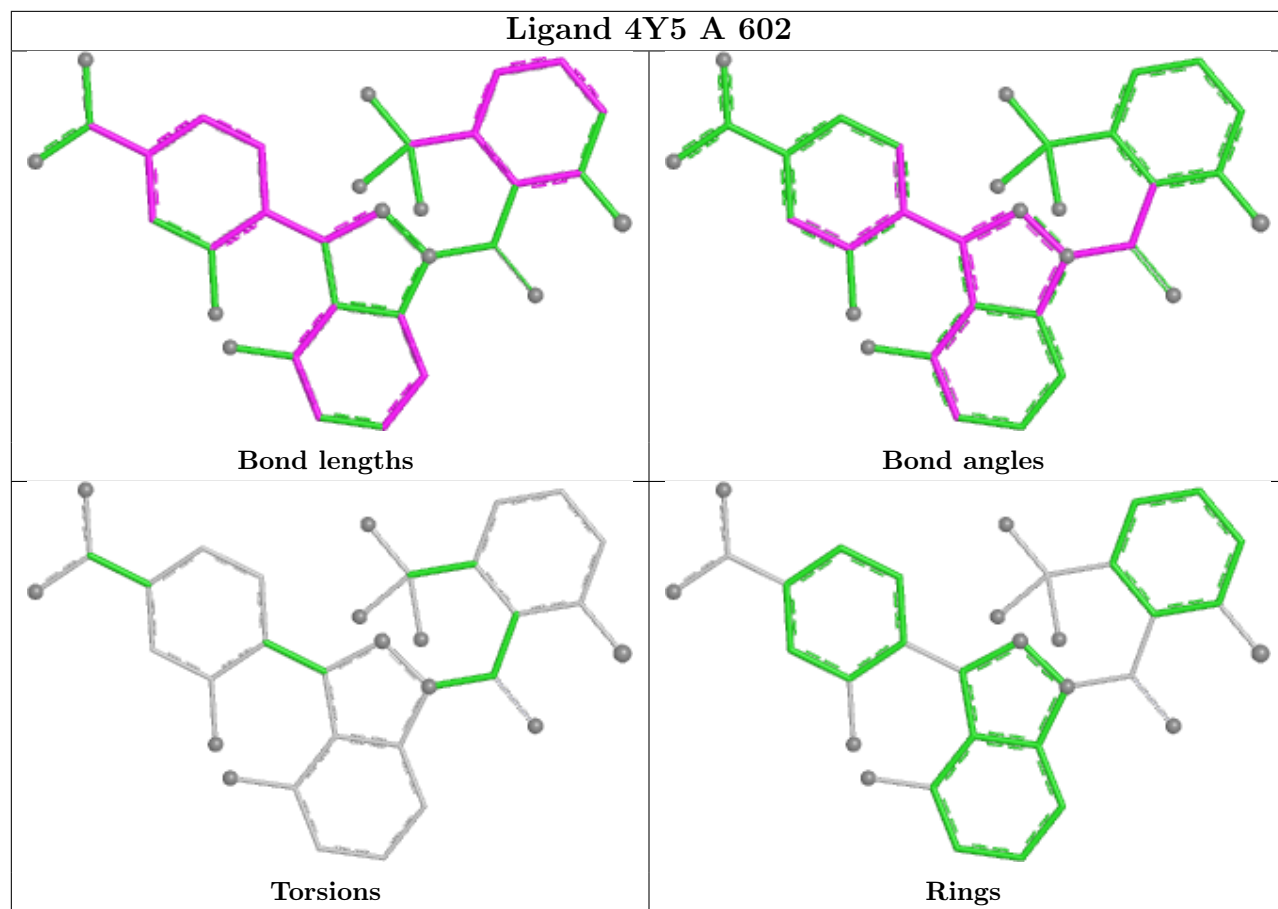
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

Ligand 4Y5 B 602



Ligand LKY A 601





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	248/262 (94%)	0.61	12 (4%) 35 39	13, 29, 46, 73	1 (0%)
1	B	248/262 (94%)	0.75	21 (8%) 16 17	11, 30, 50, 65	3 (1%)
All	All	496/524 (94%)	0.68	33 (6%) 24 26	11, 30, 49, 73	4 (0%)

All (33) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	260	PRO	5.5
1	B	314	TRP	4.4
1	A	302	ARG	4.0
1	A	355	ALA	3.5
1	B	355	ALA	3.5
1	B	387	LEU	3.4
1	A	507	SER	3.3
1	A	339	SER	3.1
1	B	312	SER	2.9
1	B	506	PHE	2.7
1	B	367[A]	ARG	2.7
1	B	507	SER	2.7
1	B	494	VAL	2.7
1	A	275	GLN	2.6
1	B	462	ILE	2.5
1	B	322[A]	HIS	2.5
1	B	260	PRO	2.4
1	B	291	ASP	2.2
1	B	295	GLN	2.2
1	A	267	LEU	2.2
1	A	394	SER	2.1
1	B	302	ARG	2.1
1	B	275	GLN	2.1
1	B	305	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	343	GLU	2.1
1	A	322	HIS	2.1
1	B	371	ALA	2.1
1	B	270	ILE	2.1
1	B	296	ARG	2.1
1	B	287	LEU	2.1
1	A	303	GLU	2.0
1	B	303	GLU	2.0
1	A	434	GLN	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](#)

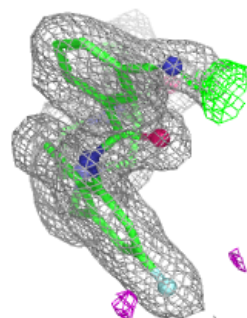
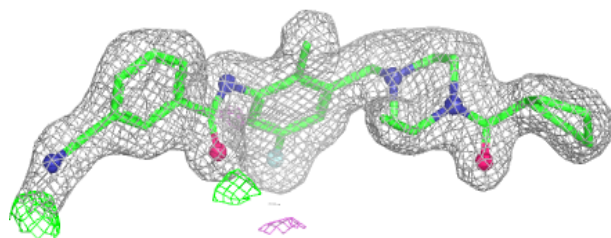
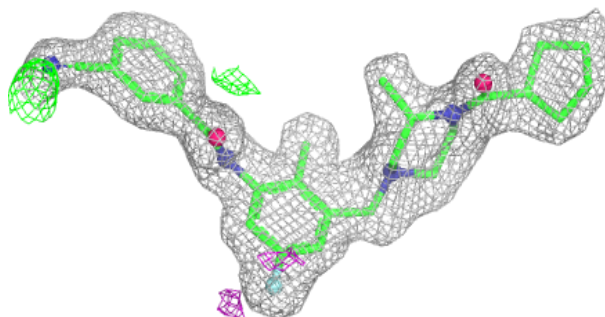
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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	LKY	B	601	34/34	0.92	0.09	24,28,37,44	0
2	LKY	A	601	34/34	0.95	0.07	20,24,29,31	0
3	4Y5	A	602	33/33	0.96	0.06	16,21,30,32	0
3	4Y5	B	602	33/33	0.97	0.05	16,22,27,29	0
4	SO4	A	603	5/5	0.97	0.07	24,32,38,42	0

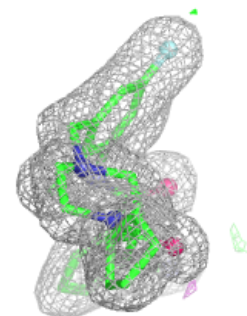
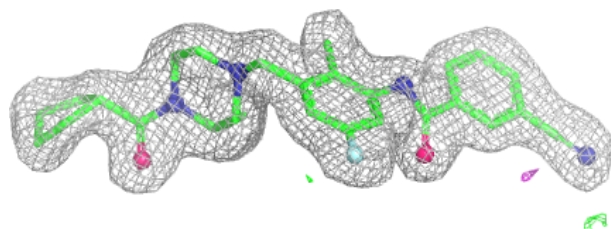
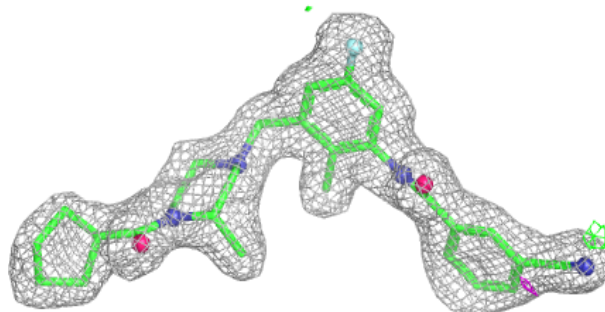
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around LKY 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)

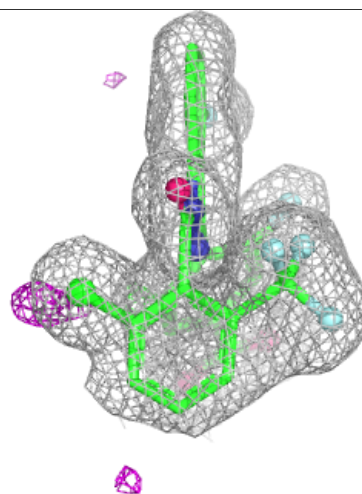
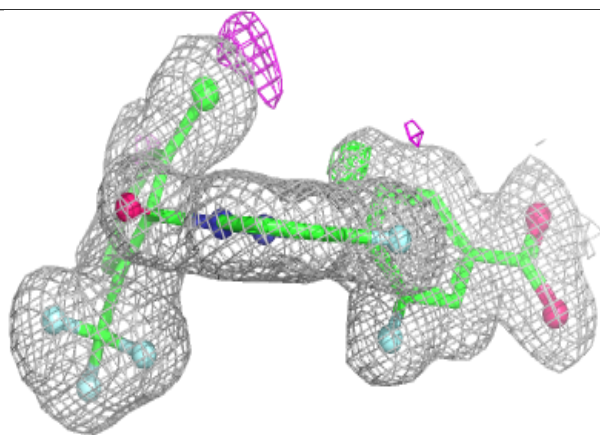
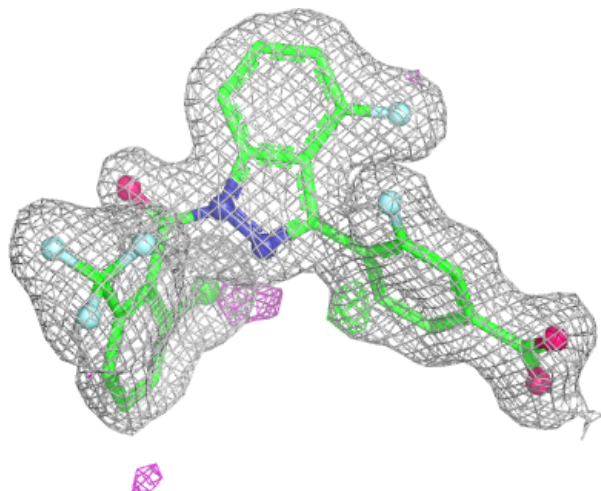
**Electron density around LKY A 601:**

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



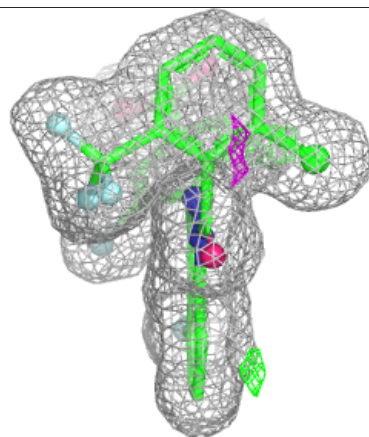
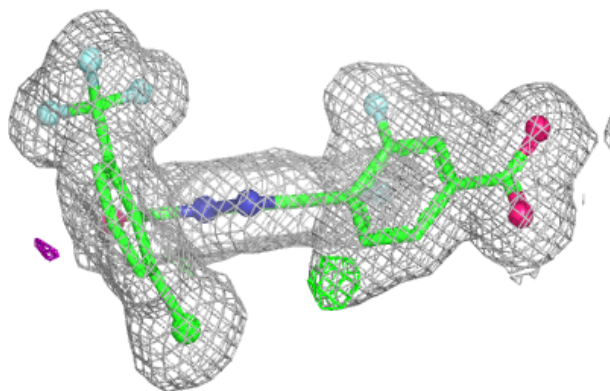
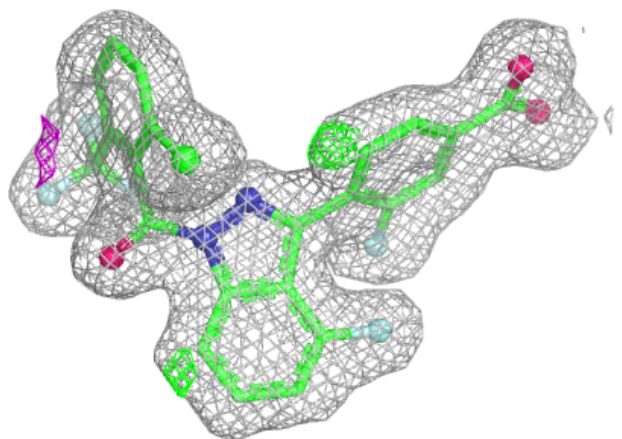
Electron density around 4Y5 A 602:

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



Electron density around 4Y5 B 602:

$2mF_o-DF_c$ (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.