



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 05:40 PM UTC

PDB ID : 8DKV / pdb_00008dkv
Title : PPARg bound to JTP-426467 and Co-R peptide
Authors : Larsen, N.A.
Deposited on : 2022-07-06
Resolution : 1.59 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

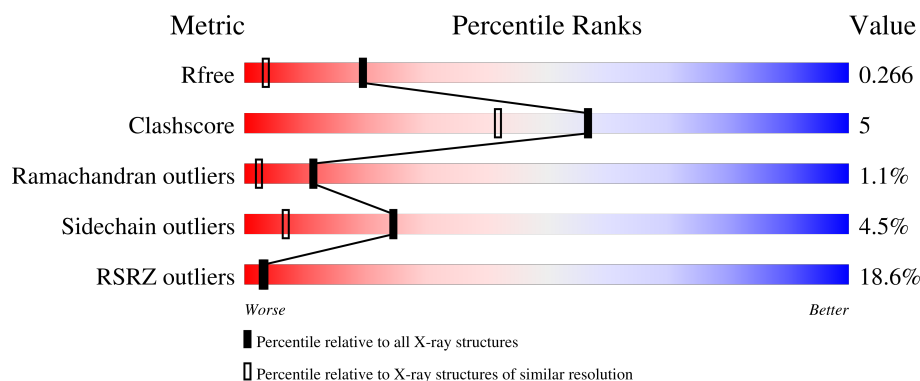
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.59 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	4673 (1.60-1.60)
Clashscore	190562	4931 (1.60-1.60)
Ramachandran outliers	187476	4831 (1.60-1.60)
Sidechain outliers	187428	4830 (1.60-1.60)
RSRZ outliers	180081	4672 (1.60-1.60)

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	273	
2	C	14	

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 2502 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 Peroxisome proliferator-activated receptor gamma.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	265	Total	C	N	O	S	0	1	0
			2115	1364	344	397	10			

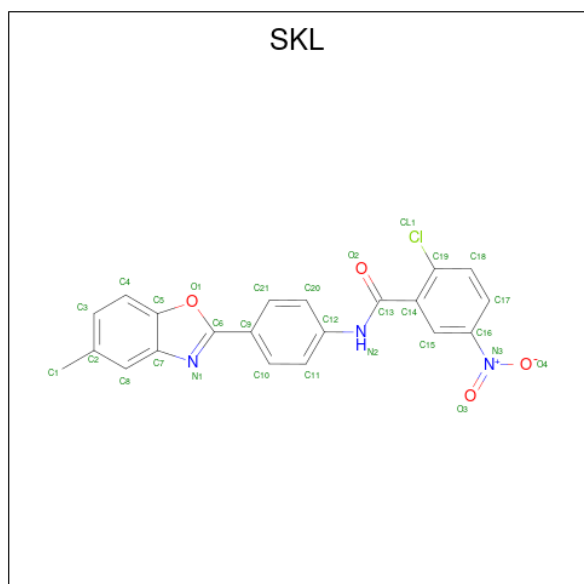
There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	233	GLY	-	expression tag	UNP P37231

- Molecule 2 is a protein called Nuclear receptor corepressor 1.

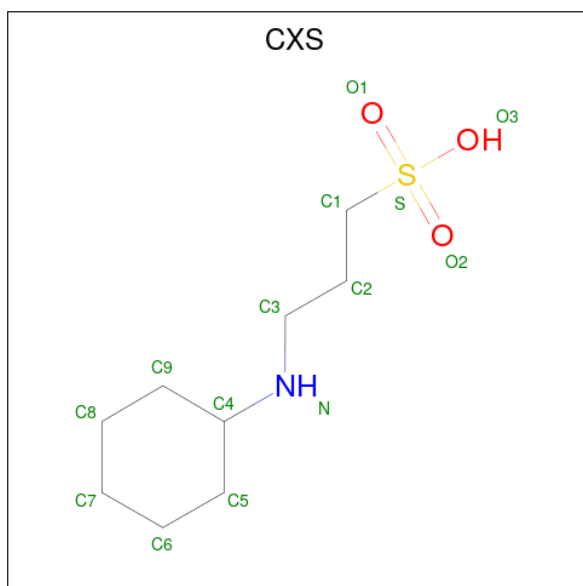
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	14	Total	C	N	O	S	0	0	0
			108	68	19	20	1			

- Molecule 3 is 2-chloro-N-[4-(5-methyl-1,3-benzoxazol-2-yl)phenyl]-5-nitrobenzamide (CCD ID: SKL) (formula: C₂₁H₁₄ClN₃O₄) (labeled as "Ligand of Interest" by depositor).



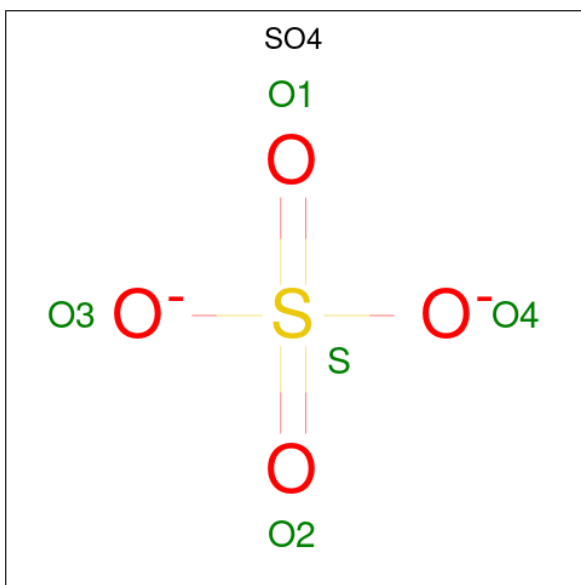
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			28	21	3	4		

- Molecule 4 is 3-CYCLOHEXYL-1-PROPYLSULFONIC ACID (CCD ID: CXS) (formula: $C_9H_{19}NO_3S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	A	1	Total	C	N	O	S	0	0
			14	9	1	3	1		
4	A	1	Total	C	N	O	S	0	0
			14	9	1	3	1		

- Molecule 5 is SULFATE ION (CCD ID: SO4) (formula: O_4S).



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

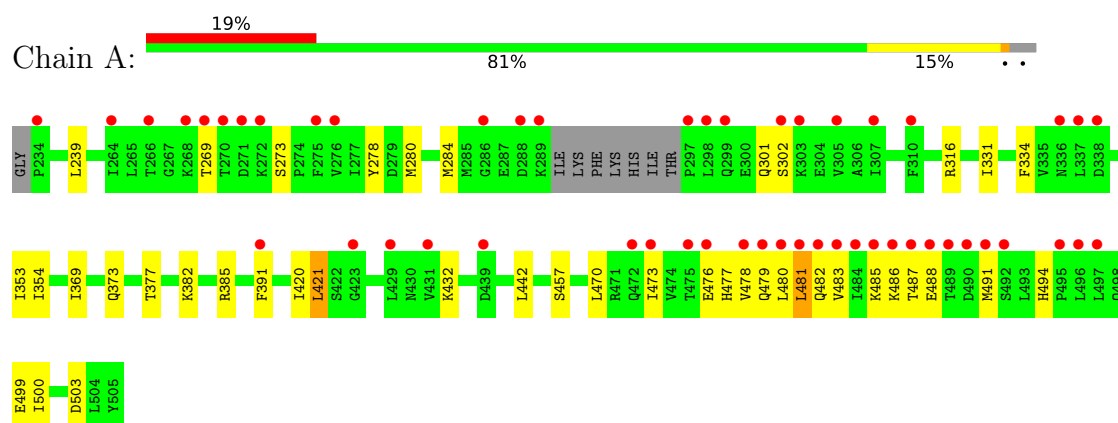
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	202	Total	O	0	0
			202	202		
6	C	16	Total	O	0	0
			16	16		

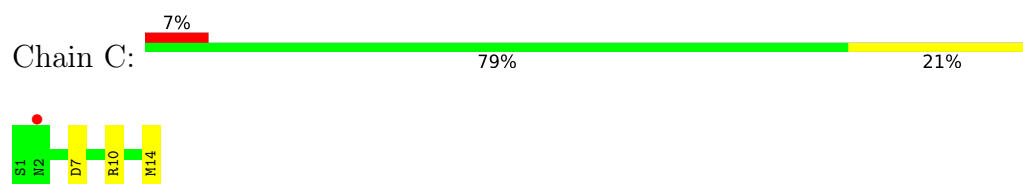
3 Residue-property plots [i](#)

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: Peroxisome proliferator-activated receptor gamma



- Molecule 2: Nuclear receptor corepressor 1



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	83.16Å 81.63Å 48.01Å 90.00° 104.06° 90.00°	Depositor
Resolution (Å)	46.57 – 1.59 46.57 – 1.59	Depositor EDS
% Data completeness (in resolution range)	92.6 (46.57-1.59) 92.6 (46.57-1.59)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.02 (at 1.59Å)	Xtriage
Refinement program	REFMAC 5.8.0103	Depositor
R, R_{free}	0.216 , 0.266 0.223 , 0.266	Depositor DCC
R_{free} test set	1955 reflections (5.05%)	wwPDB-VP
Wilson B-factor (Å ²)	26.0	Xtriage
Anisotropy	0.159	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 35.7	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	0.96	EDS
Total number of atoms	2502	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.58% 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: CXS, SKL, SO4

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	1.27	6/2154 (0.3%)	1.24	2/2903 (0.1%)
2	C	1.33	1/107 (0.9%)	1.15	0/141
All	All	1.27	7/2261 (0.3%)	1.24	2/3044 (0.1%)

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	473	ILE	C-O	-6.34	1.16	1.24
1	A	354	ILE	C-O	-6.00	1.17	1.24
1	A	470	LEU	C-O	-5.74	1.17	1.24
1	A	334	PHE	CA-C	5.58	1.60	1.52
1	A	239	LEU	C-O	5.44	1.30	1.24
2	C	7	ASP	C-O	-5.21	1.18	1.24
1	A	442	LEU	N-CA	5.01	1.52	1.46

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	377	THR	N-CA-C	6.17	119.20	110.50
1	A	503	ASP	N-CA-C	5.26	119.56	113.20

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	2115	0	2165	20	0
2	C	108	0	121	1	0
3	A	28	0	0	0	0
4	A	28	0	38	1	0
5	A	5	0	0	0	0
6	A	202	0	0	3	0
6	C	16	0	0	0	0
All	All	2502	0	2324	21	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 (21) 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:478:VAL:HA	1:A:481:LEU:HD23	1.59	0.85
1:A:280:MET:HE3	1:A:284:MET:HE2	1.80	0.63
1:A:278:TYR:OH	6:A:701:HOH:O	2.14	0.60
1:A:391:PHE:CD1	1:A:480:LEU:HD21	2.39	0.56
1:A:482:GLN:HE21	1:A:482:GLN:HA	1.71	0.56
1:A:316:ARG:HB3	4:A:602:CXS:H11	1.87	0.56
1:A:385:ARG:HD3	6:A:720:HOH:O	2.10	0.50
2:C:10:ARG:O	2:C:14:MET:HG2	2.11	0.50
1:A:369:ILE:CD1	1:A:500:ILE:HD12	2.44	0.48
1:A:476:GLU:O	1:A:477:HIS:C	2.57	0.48
1:A:284:MET:HE1	1:A:494:HIS:CD2	2.49	0.48
1:A:476:GLU:O	1:A:479:GLN:N	2.43	0.47
1:A:478:VAL:HG13	6:A:702:HOH:O	2.13	0.47
1:A:476:GLU:O	1:A:478:VAL:N	2.48	0.46
1:A:284:MET:HE1	1:A:494:HIS:NE2	2.30	0.46
1:A:479:GLN:O	1:A:483:VAL:HG23	2.16	0.45
1:A:331:ILE:HG21	1:A:421:LEU:HD13	1.98	0.45
1:A:487:THR:HB	1:A:491:MET:HE2	2.00	0.43
1:A:353:ILE:HD11	1:A:420:ILE:HG13	2.02	0.42
1:A:280:MET:CE	1:A:284:MET:HE2	2.50	0.41
1:A:369:ILE:HD12	1:A:500:ILE:HD12	2.02	0.41

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	262/273 (96%)	251 (96%)	8 (3%)	3 (1%)	11	2
2	C	12/14 (86%)	12 (100%)	0	0	100	100
All	All	274/287 (96%)	263 (96%)	8 (3%)	3 (1%)	11	2

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	302	SER
1	A	488	GLU
1	A	269	THR

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	236/245 (96%)	225 (95%)	11 (5%)	23	6
2	C	12/12 (100%)	12 (100%)	0	100	100
All	All	248/257 (96%)	237 (96%)	11 (4%)	24	7

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	273	SER
1	A	301	GLN
1	A	373	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	382	LYS
1	A	421	LEU
1	A	432	LYS
1	A	457	SER
1	A	481	LEU
1	A	485	LYS
1	A	486	LYS
1	A	499	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	281	ASN
1	A	479	GLN
1	A	482	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](#)

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
4	CXS	A	602	-	14,14,14	2.18	5 (35%)	18,18,18	2.08	6 (33%)
3	SKL	A	601	1	31,31,32	2.49	9 (29%)	42,44,46	2.21	17 (40%)
4	CXS	A	603	-	14,14,14	1.95	4 (28%)	18,18,18	3.48	9 (50%)
5	SO4	A	604	-	4,4,4	0.75	0	6,6,6	0.33	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
4	CXS	A	602	-	-	4/8/16/16	0/1/1/1
3	SKL	A	601	1	-	4/14/16/16	0/4/4/4
4	CXS	A	603	-	-	3/8/16/16	0/1/1/1

All (18) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	601	SKL	O3-N3	8.46	1.37	1.22
3	A	601	SKL	C9-C6	-5.04	1.37	1.47
3	A	601	SKL	C16-N3	-4.87	1.33	1.45
4	A	602	CXS	C1-S	4.48	1.83	1.77
4	A	603	CXS	C1-S	4.40	1.83	1.77
3	A	601	SKL	C14-C13	-3.85	1.41	1.50
4	A	603	CXS	O2-S	3.69	1.55	1.45
4	A	602	CXS	O2-S	3.24	1.54	1.45
4	A	603	CXS	O1-S	3.10	1.53	1.45
3	A	601	SKL	C12-N2	-2.97	1.35	1.41
4	A	602	CXS	O1-S	2.93	1.53	1.45
3	A	601	SKL	C5-C7	-2.89	1.35	1.38
4	A	602	CXS	C8-C9	2.75	1.60	1.53
4	A	602	CXS	C5-C4	-2.72	1.45	1.52
3	A	601	SKL	C7-N1	-2.42	1.35	1.39
3	A	601	SKL	C1-C2	-2.27	1.44	1.51
3	A	601	SKL	C10-C9	-2.12	1.36	1.39
4	A	603	CXS	O3-S	2.04	1.54	1.47

All (32) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	603	CXS	C2-C1-S	-9.70	98.38	113.25

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	603	CXS	O1-S-C1	8.37	119.38	106.73
3	A	601	SKL	O1-C6-N1	-6.14	107.70	115.10
3	A	601	SKL	C7-N1-C6	5.21	110.18	104.53
4	A	602	CXS	O2-S-C1	4.06	112.87	106.73
4	A	602	CXS	C6-C5-C4	-3.64	104.58	111.09
4	A	602	CXS	O1-S-C1	-3.56	101.35	106.73
3	A	601	SKL	O3-N3-C16	-3.55	113.94	118.82
3	A	601	SKL	C5-O1-C6	3.49	107.64	104.06
3	A	601	SKL	C1-C2-C8	3.42	125.56	120.92
3	A	601	SKL	C18-C19-C14	-3.29	117.13	120.36
4	A	602	CXS	C9-C4-C5	-3.08	105.48	110.80
4	A	603	CXS	C7-C8-C9	-2.85	105.55	111.42
4	A	603	CXS	C2-C3-N	-2.79	101.50	111.78
4	A	603	CXS	C6-C5-C4	-2.75	106.17	111.09
4	A	602	CXS	O3-S-C1	2.75	111.38	106.00
3	A	601	SKL	C15-C16-N3	2.74	121.09	118.74
3	A	601	SKL	O1-C5-C4	2.68	132.12	126.49
3	A	601	SKL	C11-C10-C9	2.67	123.66	120.80
3	A	601	SKL	C20-C12-C11	-2.66	115.51	119.04
3	A	601	SKL	C4-C5-C7	-2.65	120.40	123.62
4	A	603	CXS	O2-S-C1	-2.55	102.88	106.73
3	A	601	SKL	O1-C6-C9	2.42	123.71	118.30
4	A	603	CXS	O2-S-O1	-2.40	106.03	113.82
4	A	602	CXS	C2-C1-S	2.31	116.78	113.25
4	A	603	CXS	C3-C2-C1	-2.31	105.35	112.72
3	A	601	SKL	C18-C17-C16	2.24	122.41	119.40
3	A	601	SKL	C21-C9-C10	-2.17	115.81	118.57
3	A	601	SKL	O2-C13-C14	-2.16	116.62	120.90
3	A	601	SKL	C8-C7-N1	2.13	133.90	129.31
3	A	601	SKL	C14-C15-C16	2.12	122.23	119.79
4	A	603	CXS	C7-C6-C5	-2.00	107.31	111.42

There are no chirality outliers.

All (11) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	603	CXS	C2-C1-S-O2
4	A	603	CXS	C1-C2-C3-N
4	A	602	CXS	S-C1-C2-C3
4	A	602	CXS	C5-C4-N-C3
4	A	603	CXS	C2-C1-S-O3
4	A	602	CXS	C2-C3-N-C4

Continued on next page...

Continued from previous page...

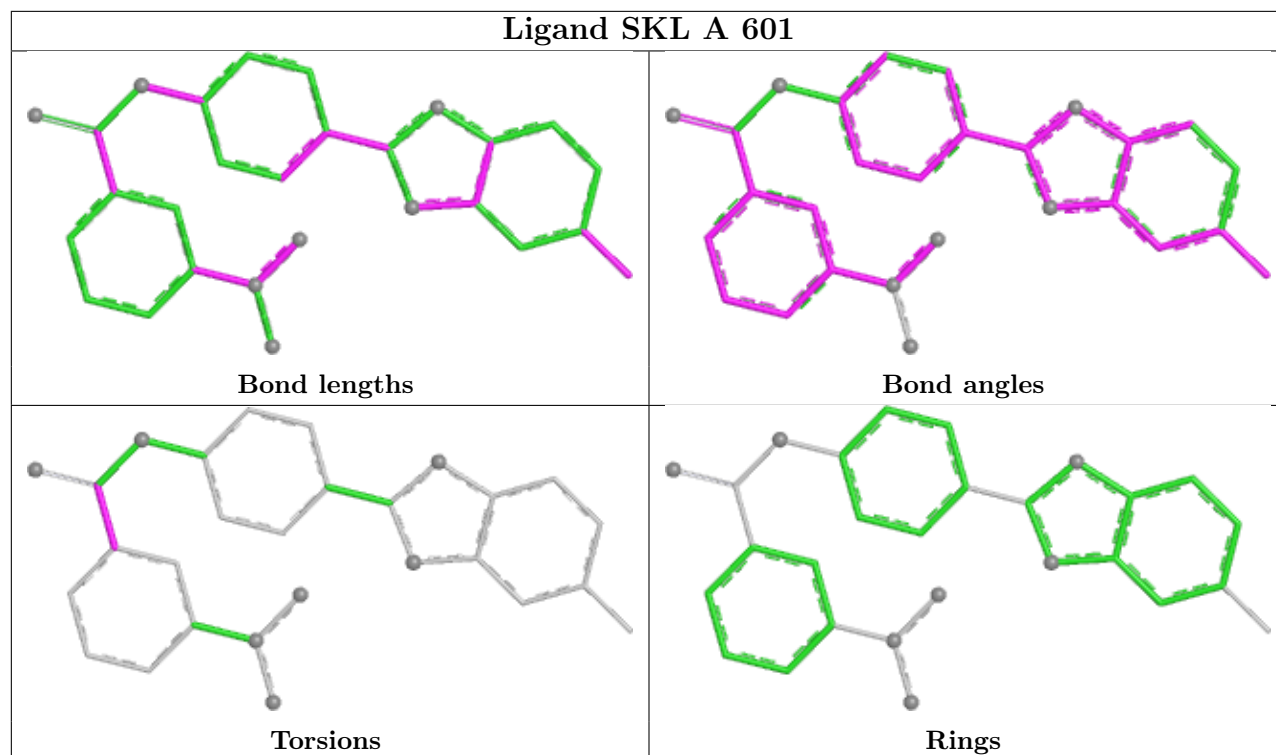
Mol	Chain	Res	Type	Atoms
3	A	601	SKL	N2-C13-C14-C15
3	A	601	SKL	N2-C13-C14-C19
3	A	601	SKL	O2-C13-C14-C15
3	A	601	SKL	O2-C13-C14-C19
4	A	602	CXS	C9-C4-N-C3

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	602	CXS	1	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 [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	265/273 (97%)	1.10	51 (19%) 3 3	13, 32, 84, 133	1 (0%)
2	C	14/14 (100%)	0.73	1 (7%) 22 22	22, 30, 41, 46	0
All	All	279/287 (97%)	1.08	52 (18%) 3 3	13, 32, 84, 133	1 (0%)

All (52) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	298	LEU	6.4
1	A	478	VAL	6.1
1	A	489	THR	6.0
1	A	480	LEU	5.7
1	A	481	LEU	5.2
1	A	484	ILE	5.1
1	A	487	THR	4.7
1	A	297	PRO	4.5
1	A	482	GLN	4.1
1	A	483	VAL	3.9
1	A	234	PRO	3.6
1	A	473	ILE	3.5
1	A	488	GLU	3.5
1	A	288	ASP	3.5
1	A	275	PHE	3.4
1	A	431	VAL	3.3
1	A	289	LYS	3.3
1	A	472	GLN	3.3
1	A	269	THR	3.3
1	A	490	ASP	3.1
1	A	302	SER	3.0
1	A	307	ILE	3.0
1	A	485	LYS	3.0
1	A	310	PHE	3.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	A	268	LYS	3.0
1	A	270	THR	3.0
1	A	266	THR	2.9
1	A	336	ASN	2.8
1	A	423	GLY	2.8
1	A	391	PHE	2.6
1	A	272	LYS	2.6
1	A	496	LEU	2.5
1	A	264	ILE	2.5
1	A	303	LYS	2.5
1	A	299	GLN	2.5
1	A	475	THR	2.5
1	A	439	ASP	2.5
1	A	491	MET	2.4
1	A	497	LEU	2.4
1	A	476	GLU	2.4
1	A	337	LEU	2.3
1	A	486	LYS	2.2
1	A	495	PRO	2.2
1	A	492	SER	2.2
1	A	305	VAL	2.2
1	A	479	GLN	2.2
1	A	271	ASP	2.2
1	A	276	VAL	2.2
1	A	286	GLY	2.1
2	C	2	ASN	2.1
1	A	429	LEU	2.0
1	A	338	ASP	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.

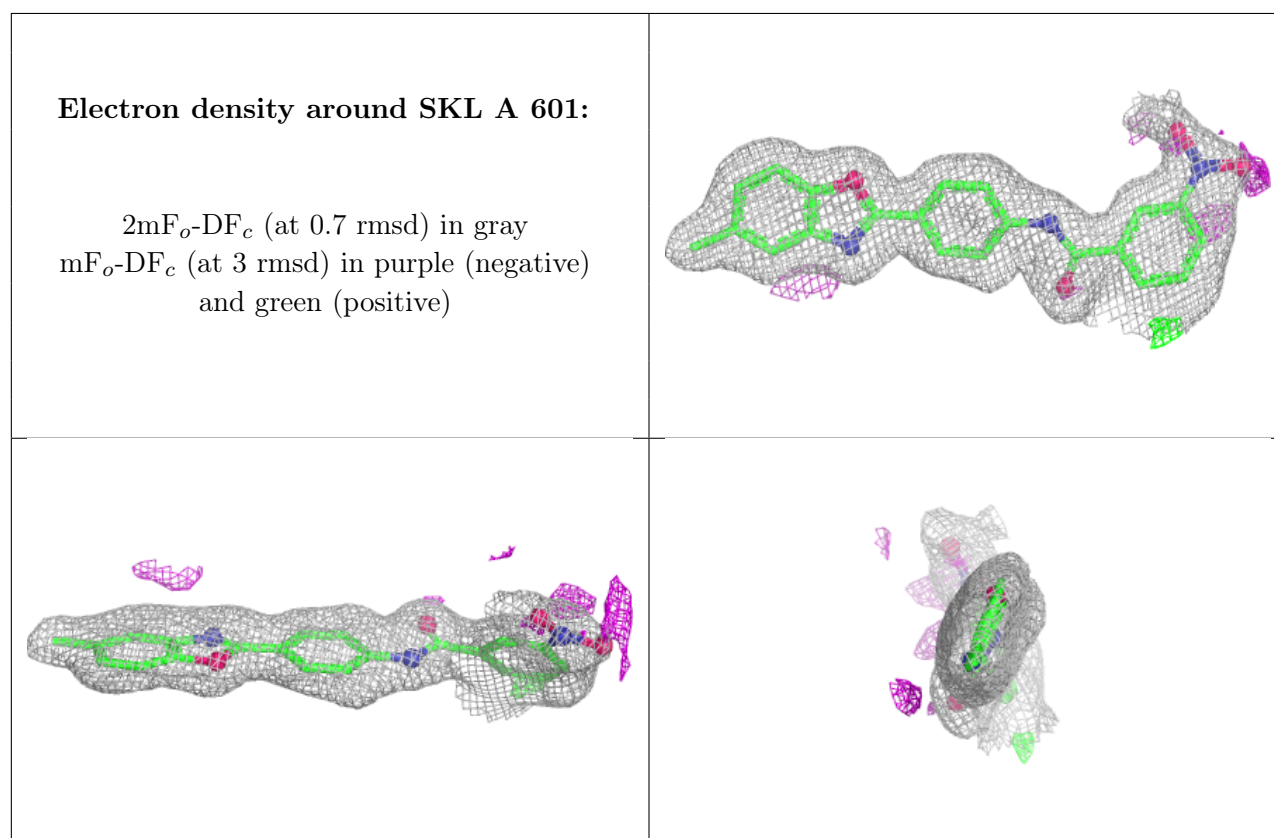
6.4 Ligands [i](#)

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(Å ²)	Q<0.9
5	SO4	A	604	5/5	0.80	0.11	51,55,59,61	0
4	CXS	A	603	14/14	0.88	0.12	32,36,49,53	0
4	CXS	A	602	14/14	0.89	0.13	36,42,50,55	0
3	SKL	A	601	28/29	0.93	0.09	20,24,31,43	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.