



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 7, 2026 – 03:03 AM UTC

PDB ID : 7JTW / pdb_00007jtw
Title : Crystal structure of RORgt with compound (4R)-6-[(2,5-dichloro-3-[(2R,4R)-1-(cyclopentanecarbonyl)-2-methylpiperidin-4-yl]oxy}phenyl)amino]-6-oxo-4-phenylhexanoic acid
Authors : Min, X.; Wang, Z.
Deposited on : 2020-08-18
Resolution : 1.90 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

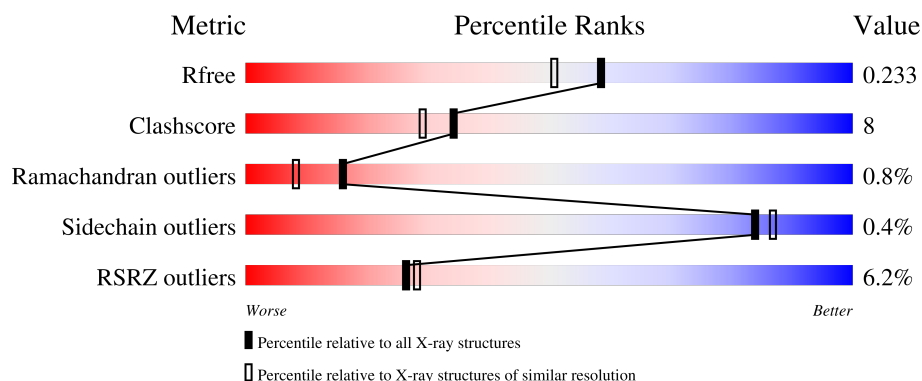
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 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	7789 (1.90-1.90)
Clashscore	190562	8410 (1.90-1.90)
Ramachandran outliers	187476	8333 (1.90-1.90)
Sidechain outliers	187428	8333 (1.90-1.90)
RSRZ outliers	180081	7790 (1.90-1.90)

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	270	

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
3	GOL	A	604	-	-	X	-

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 2290 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.

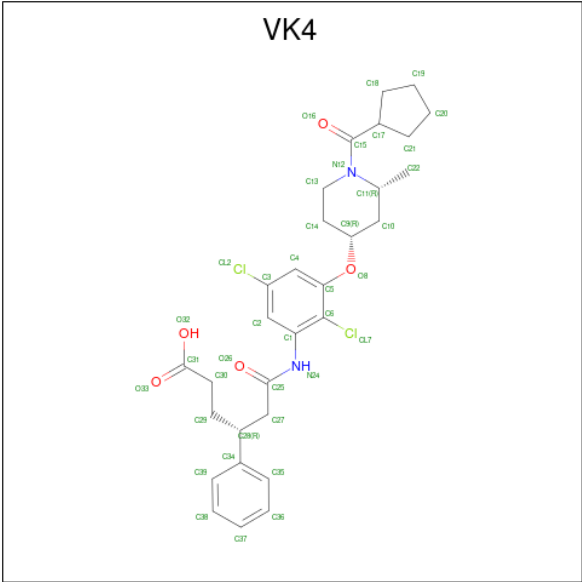
- Molecule 1 is a protein called RAR-related orphan receptor C isoform a variant.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	259	2115	1343	381	376	15	0	1	0

There are 21 discrepancies between the modelled and reference sequences:

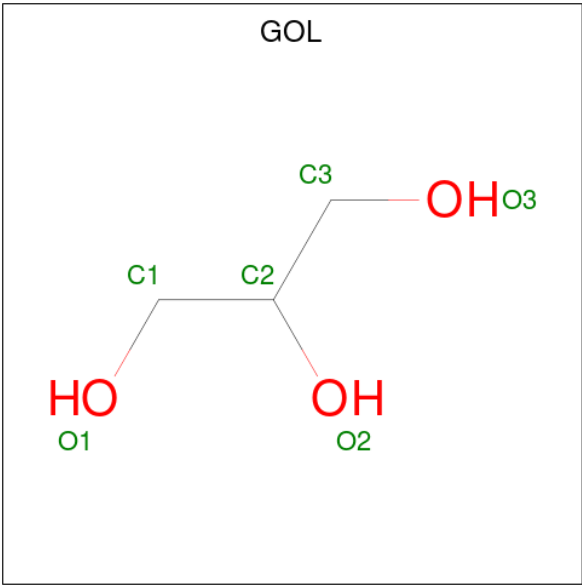
Chain	Residue	Modelled	Actual	Comment	Reference
A	255	GLY	-	expression tag	UNP Q53FZ4
A	256	SER	-	expression tag	UNP Q53FZ4
A	257	HIS	-	expression tag	UNP Q53FZ4
A	258	MET	-	expression tag	UNP Q53FZ4
A	483	MET	LEU	conflict	UNP Q53FZ4
A	509	GLY	-	expression tag	UNP Q53FZ4
A	510	GLY	-	expression tag	UNP Q53FZ4
A	511	SER	-	expression tag	UNP Q53FZ4
A	512	GLY	-	expression tag	UNP Q53FZ4
A	513	ASP	-	expression tag	UNP Q53FZ4
A	514	HIS	-	expression tag	UNP Q53FZ4
A	515	LYS	-	expression tag	UNP Q53FZ4
A	516	ILE	-	expression tag	UNP Q53FZ4
A	517	ILE	-	expression tag	UNP Q53FZ4
A	518	HIS	-	expression tag	UNP Q53FZ4
A	519	ARG	-	expression tag	UNP Q53FZ4
A	520	LEU	-	expression tag	UNP Q53FZ4
A	521	LEU	-	expression tag	UNP Q53FZ4
A	522	GLN	-	expression tag	UNP Q53FZ4
A	523	GLU	-	expression tag	UNP Q53FZ4
A	524	GLY	-	expression tag	UNP Q53FZ4

- Molecule 2 is (4R)-6-[(2,5-dichloro-3-{[(2R,4R)-1-(cyclopentanecarbonyl)-2-methylpiperidin-4-yl]oxy}phenyl)amino]-6-oxo-4-phenylhexanoic acid (CCD ID: VK4) (formula: C₃₀H₃₆Cl₂N₂O₅) (labeled as "Ligand of Interest" by depositor).



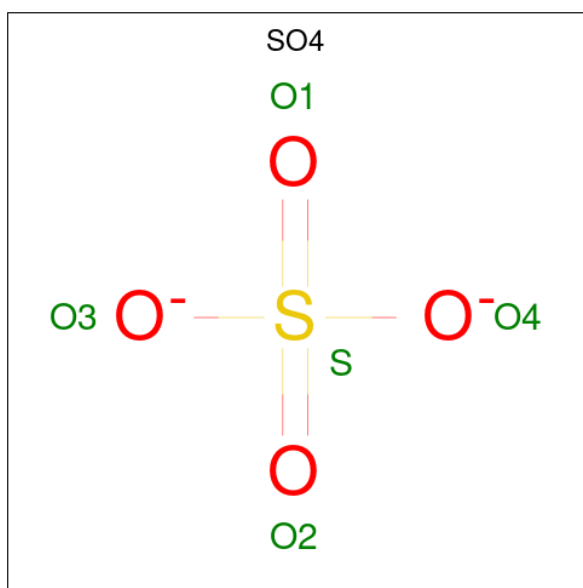
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	Cl	N	O	
2	A	1	39	30	2	2	5	0

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
3	A	1	6	3	0	0
3	A	1	6	3	0	0
3	A	1	6	3	0	0

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



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

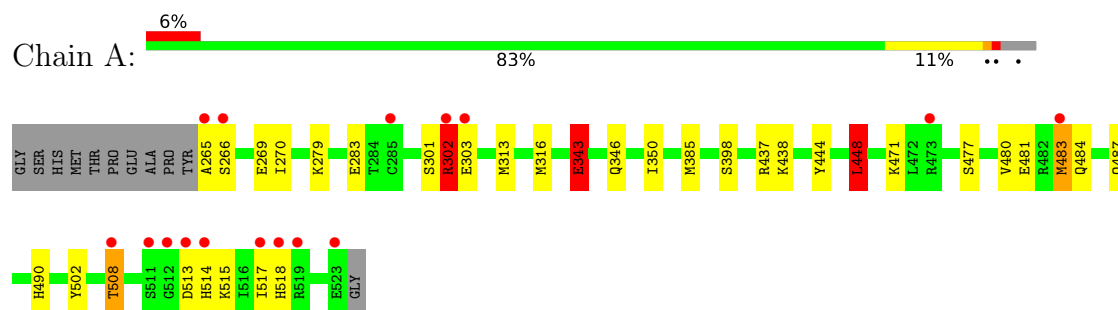
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	113	Total	O	0	0
			113	113		

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: RAR-related orphan receptor C isoform a variant



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	61.99Å 61.99Å 156.84Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.22 – 1.90 29.22 – 1.90	Depositor EDS
% Data completeness (in resolution range)	100.0 (29.22-1.90) 99.9 (29.22-1.90)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.97 (at 1.91Å)	Xtriage
Refinement program	PHENIX v1.18.2	Depositor
R, R_{free}	0.198 , 0.233 0.199 , 0.233	Depositor DCC
R_{free} test set	1303 reflections (5.22%)	wwPDB-VP
Wilson B-factor (Å ²)	26.3	Xtriage
Anisotropy	0.091	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 32.2	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	2290	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.55% 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: GOL, SO4, VK4

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	0.46	1/2160 (0.0%)	0.98	15/2907 (0.5%)

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	A	1	1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	483	MET	CB-CG	-5.63	1.35	1.52

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	343	GLU	CG-CD-OE1	17.01	157.53	118.40
1	A	343	GLU	CG-CD-OE2	-14.33	85.44	118.40
1	A	343	GLU	OE1-CD-OE2	-14.28	88.64	122.90
1	A	483	MET	CB-CG-SD	11.65	147.64	112.70
1	A	437	ARG	CB-CG-CD	-8.14	92.57	111.30
1	A	483	MET	CG-SD-CE	-7.57	84.24	100.90
1	A	437	ARG	CA-CB-CG	7.44	128.98	114.10
1	A	508	THR	OG1-CB-CG2	6.21	121.71	109.30
1	A	437	ARG	CD-NE-CZ	6.04	132.85	124.40
1	A	448	LEU	CB-CG-CD2	6.03	128.79	110.70
1	A	483	MET	N-CA-CB	-5.56	101.66	109.94
1	A	508	THR	CA-CB-CG2	5.46	119.78	110.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	302	ARG	NE-CZ-NH1	-5.20	116.30	121.50
1	A	302	ARG	CA-CB-CG	5.15	124.40	114.10
1	A	508	THR	CA-CB-OG1	5.09	117.23	109.60

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	508	THR	CB

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	343	GLU	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	2115	0	2115	32	0
2	A	39	0	0	1	0
3	A	18	0	23	5	0
4	A	5	0	0	0	0
5	A	113	0	0	7	0
All	All	2290	0	2138	33	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 (33) 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:302:ARG:N	5:A:701:HOH:O	2.03	0.89
1:A:302:ARG:CZ	5:A:701:HOH:O	2.36	0.74
1:A:279:LYS:NZ	1:A:283:GLU:OE2	2.17	0.72
1:A:343:GLU:O	1:A:438:LYS:NZ	2.21	0.68
1:A:515:LYS:N	1:A:515:LYS:HD3	2.11	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:385:MET:HE1	1:A:398:SER:OG	2.01	0.60
1:A:350:ILE:HG23	1:A:517:ILE:HD11	1.83	0.59
1:A:313:MET:H	3:A:604:GOL:H11	1.69	0.57
1:A:313:MET:H	3:A:604:GOL:C1	2.17	0.57
1:A:480:VAL:O	1:A:484:GLN:HG3	2.08	0.54
1:A:313:MET:CB	3:A:604:GOL:H11	2.37	0.53
1:A:302:ARG:NE	5:A:701:HOH:O	2.42	0.51
1:A:302:ARG:NH1	5:A:701:HOH:O	2.41	0.50
1:A:513:ASP:O	1:A:515:LYS:N	2.45	0.50
1:A:477:SER:O	1:A:481:GLU:HG3	2.12	0.49
1:A:302:ARG:HB2	1:A:303:GLU:OE1	2.14	0.47
1:A:301:SER:CA	5:A:701:HOH:O	2.62	0.47
1:A:266:SER:O	1:A:270:ILE:HG12	2.14	0.47
1:A:513:ASP:O	1:A:513:ASP:OD1	2.34	0.46
1:A:480:VAL:O	1:A:483:MET:HB3	2.16	0.46
1:A:483:MET:SD	1:A:502:TYR:CE2	3.08	0.46
1:A:487:GLN:OE1	1:A:508:THR:HG23	2.17	0.45
1:A:316:MET:HE3	1:A:316:MET:HB3	1.82	0.45
1:A:313:MET:HB2	3:A:604:GOL:H11	1.98	0.45
1:A:444:TYR:CE2	1:A:448:LEU:HD21	2.53	0.44
1:A:301:SER:HA	5:A:701:HOH:O	2.17	0.44
1:A:302:ARG:HD3	5:A:701:HOH:O	2.17	0.43
1:A:483:MET:SD	1:A:502:TYR:HE2	2.42	0.42
1:A:265:ALA:HB1	1:A:269:GLU:HB2	2.02	0.41
2:A:601:VK4:CL7	2:A:601:VK4:C9	3.05	0.41
1:A:346:GLN:NE2	1:A:518:HIS:ND1	2.68	0.41
1:A:471:LYS:HA	1:A:471:LYS:HD2	1.76	0.40
1:A:490:HIS:CE1	3:A:604:GOL:H32	2.57	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	258/270 (96%)	251 (97%)	5 (2%)	2 (1%)	16 8

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	302	ARG
1	A	514	HIS

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	231/238 (97%)	230 (100%)	1 (0%)	84 87

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	448	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	272	HIS
1	A	275	GLN
1	A	286	GLN
1	A	346	GLN
1	A	441	GLN
1	A	522	GLN

5.3.3 RNA ⓘ

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$
3	GOL	A	602	-	5,5,5	1.38	1 (20%)	5,5,5	0.84	0
2	VK4	A	601	-	42,42,42	0.91	2 (4%)	54,58,58	2.38	16 (29%)
3	GOL	A	604	-	5,5,5	0.65	0	5,5,5	1.94	1 (20%)
3	GOL	A	603	-	5,5,5	1.40	1 (20%)	5,5,5	1.17	0
4	SO4	A	605	-	4,4,4	0.30	0	6,6,6	0.17	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	GOL	A	604	-	-	2/4/4/4	-
2	VK4	A	601	-	-	8/29/49/49	0/4/4/4
3	GOL	A	602	-	-	2/4/4/4	-
3	GOL	A	603	-	-	2/4/4/4	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	603	GOL	C3-C2	2.43	1.61	1.51
2	A	601	VK4	C11-N12	-2.34	1.45	1.47
2	A	601	VK4	C13-N12	-2.29	1.43	1.47
3	A	602	GOL	O2-C2	-2.26	1.36	1.43

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	601	VK4	C9-C10-C11	-10.31	95.33	112.34
2	A	601	VK4	O8-C5-C6	5.42	123.28	116.35
2	A	601	VK4	O8-C9-C10	4.54	118.46	107.78
2	A	601	VK4	C22-C11-N12	4.19	118.23	111.55
2	A	601	VK4	C13-N12-C11	-3.89	108.32	114.75
3	A	604	GOL	C3-C2-C1	-3.69	98.26	111.80
2	A	601	VK4	C13-C14-C9	3.69	114.31	110.32
2	A	601	VK4	O8-C5-C4	-3.54	115.94	123.87
2	A	601	VK4	O16-C15-N12	3.27	127.26	121.38
2	A	601	VK4	C1-C6-CL7	-3.21	117.16	119.50
2	A	601	VK4	C18-C17-C15	-3.02	106.13	112.53
2	A	601	VK4	C27-C28-C34	-2.64	106.76	111.90
2	A	601	VK4	C29-C30-C31	-2.64	105.45	112.49
2	A	601	VK4	C10-C9-C14	-2.60	108.29	111.53
2	A	601	VK4	C27-C25-N24	-2.51	111.53	114.62
2	A	601	VK4	O33-C31-C30	-2.18	116.19	123.09
2	A	601	VK4	C21-C17-C15	-2.14	107.99	112.53

There are no chirality outliers.

All (14) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	601	VK4	O16-C15-N12-C13
2	A	601	VK4	C6-C5-O8-C9
3	A	603	GOL	C1-C2-C3-O3
3	A	604	GOL	O1-C1-C2-C3
2	A	601	VK4	C17-C15-N12-C13
3	A	602	GOL	O1-C1-C2-C3
3	A	603	GOL	O2-C2-C3-O3
3	A	604	GOL	O1-C1-C2-O2
2	A	601	VK4	C10-C9-O8-C5
3	A	602	GOL	O1-C1-C2-O2
2	A	601	VK4	C4-C5-O8-C9
2	A	601	VK4	C29-C30-C31-O32

Continued on next page...

Continued from previous page...

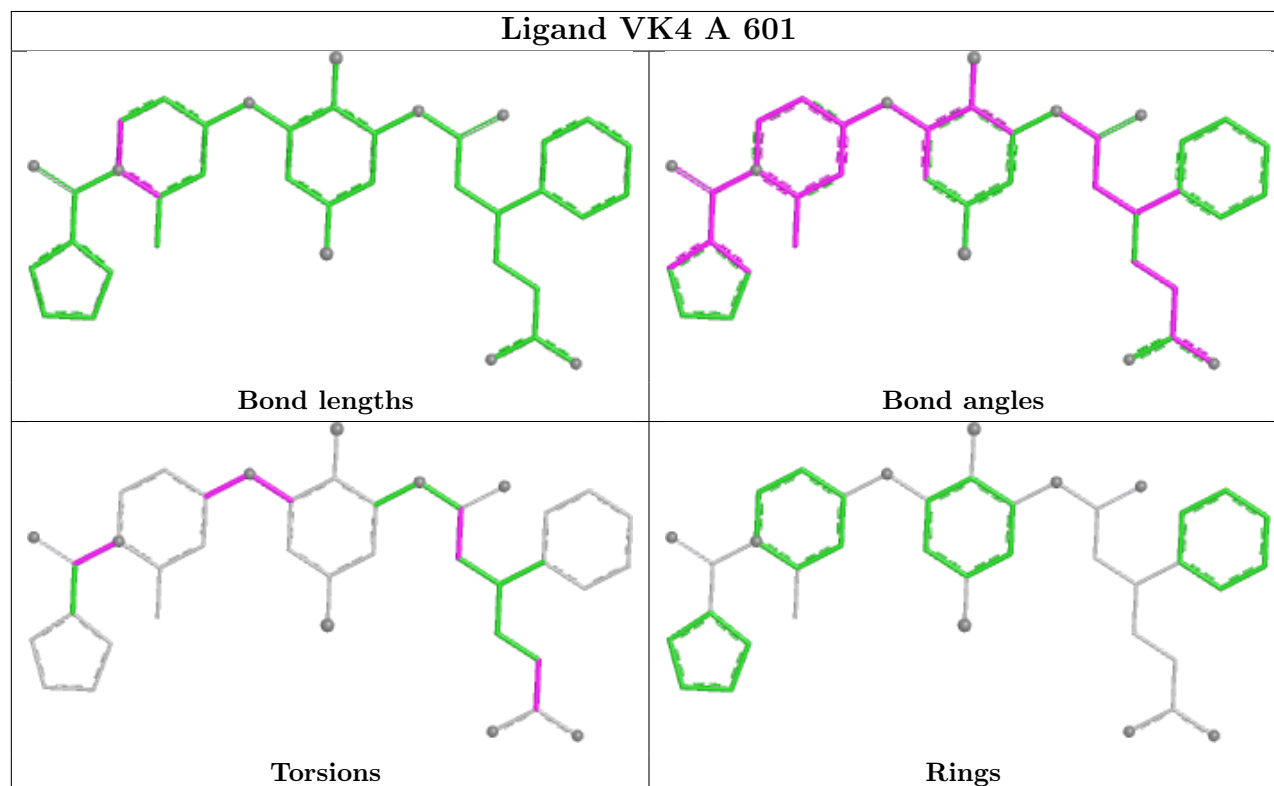
Mol	Chain	Res	Type	Atoms
2	A	601	VK4	C29-C30-C31-O33
2	A	601	VK4	O26-C25-C27-C28

There are no ring outliers.

2 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	601	VK4	1	0
3	A	604	GOL	5	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 [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	259/270 (95%)	0.22	16 (6%)	26 28	12, 26, 44, 60	1 (0%)

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	513	ASP	13.4
1	A	517	ILE	4.6
1	A	483	MET	3.6
1	A	265	ALA	3.2
1	A	519	ARG	3.1
1	A	512	GLY	2.9
1	A	266	SER	2.7
1	A	523	GLU	2.7
1	A	514	HIS	2.7
1	A	511	SER	2.6
1	A	508	THR	2.3
1	A	473	ARG	2.3
1	A	285	CYS	2.3
1	A	302	ARG	2.3
1	A	518	HIS	2.2
1	A	303	GLU	2.1

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](#)

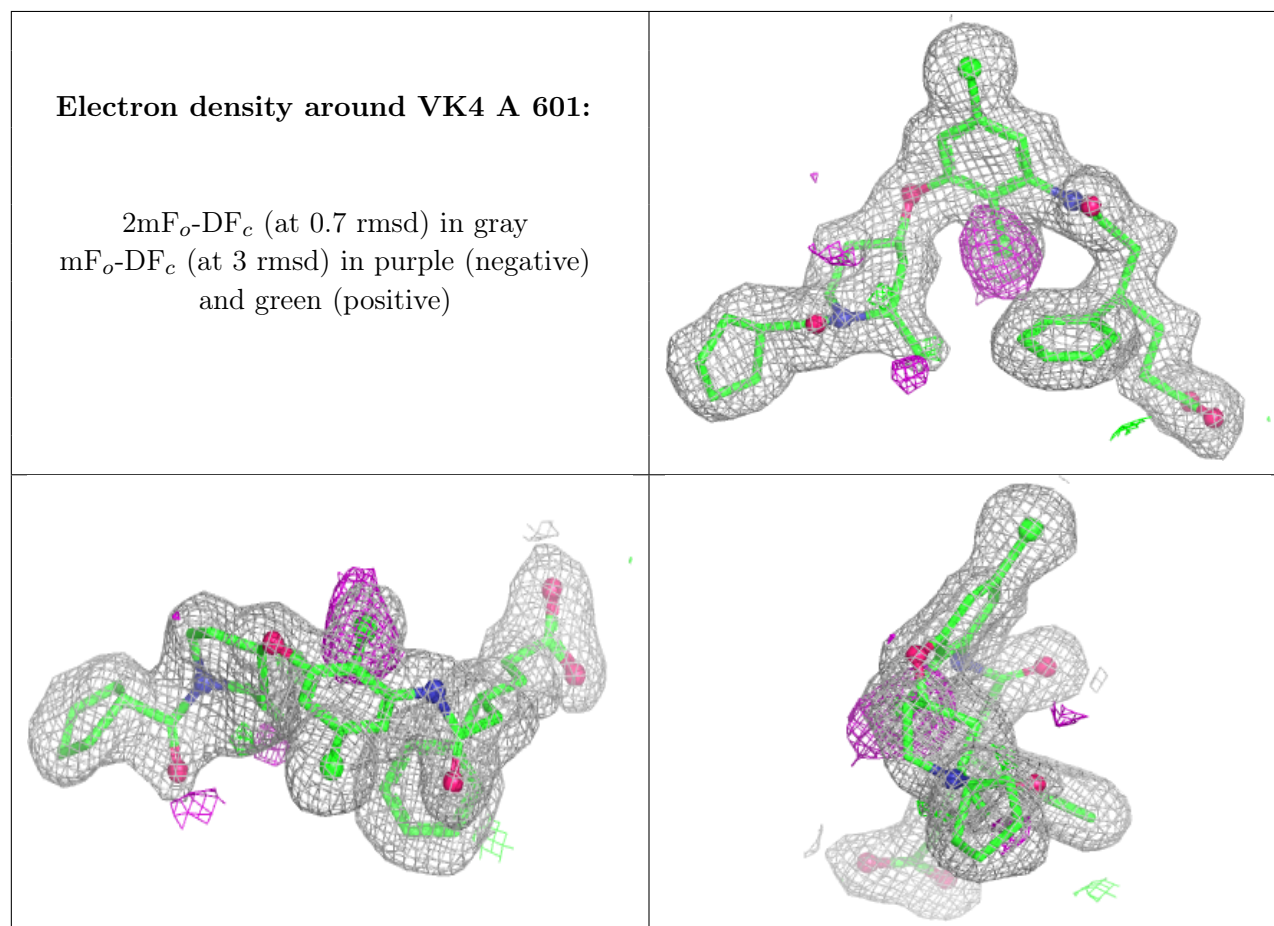
There are no oligosaccharides in this entry.

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
3	GOL	A	604	6/6	0.82	0.15	26,35,39,45	0
3	GOL	A	602	6/6	0.91	0.13	26,29,32,34	0
4	SO4	A	605	5/5	0.93	0.21	31,45,48,55	0
2	VK4	A	601	39/39	0.94	0.08	17,24,39,47	0
3	GOL	A	603	6/6	0.95	0.08	26,29,29,33	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.