

wwPDB X-ray Structure Validation Summary Report (i)

Dec 17, 2024 – 10:11 AM EST

:	9BTY
:	Structure of human MAIT A-F7 TCR in complex with human MR1-
	veratraldehyde
:	Awad, W.; Rossjohn, J.
	2024-05-15
:	2.85 Å(reported)
	: : :

This is a wwPDB X-ray Structure Validation Summary 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 (i) 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:

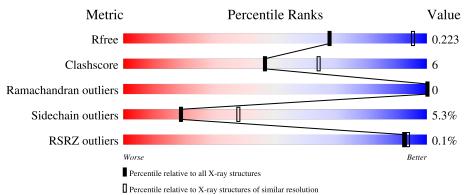
MolProbity	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.21
EDS	:	3.0
buster-report		
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.004 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.40

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY \, DIFFRACTION$

The reported resolution of this entry is 2.85 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range(Å)})$				
R_{free}	164625	1268 (2.88-2.84)				
Clashscore	180529	1351 (2.88-2.84)				
Ramachandran outliers	177936	1318 (2.88-2.84)				
Sidechain outliers	177891	1319 (2.88-2.84)				
RSRZ outliers	164620	1269 (2.88-2.84)				

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 <=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	Quality of chain								
1	А	271	81%	15%								
1	С	271	78%	20%	·							
2	В	100	77%	18%	•••							
2	F	100	88%	1	1% •							
3	D	204	75%	15% •	7%							



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Mol	Chain	Length	Quality of chain		
3	G	204	86%	12%	••
4	Е	246	79%	17%	•••
4	Н	246	87%	11%	••



2 Entry composition (i)

There are 8 unique types of molecules in this entry. The entry contains 12821 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 Major histocompatibility complex class I-related gene protein.

Mol	Chain	Residues		At	oms		ZeroOcc	AltConf	Trace
1	A 264	Total	С	Ν	0	S	0	1	0
I A	204	2135	1363	373	388	11	0		
1	1 C 266	Total	С	Ν	0	S	0	0	0
		200	2162	1388	373	390	11	0	U

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	0	MET	-	initiating methionine	UNP Q95460
А	261	SER	CYS	conflict	UNP Q95460
С	0	MET	-	initiating methionine	UNP Q95460
С	261	SER	CYS	conflict	UNP Q95460

• Molecule 2 is a protein called Beta-2-microglobulin.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
9	2 B 97	Total	С	Ν	0	S	0	0	0	
2 D	91	763	490	128	143	2	0			
0	0 E 00	Total	С	Ν	0	S	0	0	0	
2 F	99	799	511	136	150	2	0	0	0	

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
В	0	MET	-	initiating methionine	UNP P61769
F	0	MET	-	initiating methionine	UNP P61769

• Molecule 3 is a protein called Human TCR TRAV1-2_ALPHA.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
3	D	189	Total 1410	C 906	N 227	O 269	S 8	0	0	0



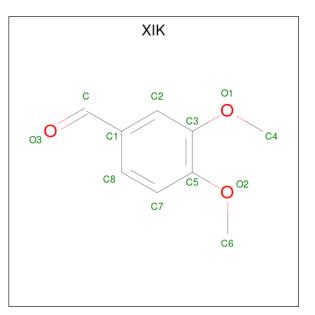
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Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
3	G	201	Total 1551	C 982	N 252	O 308	${ m S} 9$	0	1	0

• Molecule 4 is a protein called Human TCR TRBV6-1_BETA.

Mol	Chain	Residues		Ate	oms		ZeroOcc	AltConf	Trace	
4	4 E 242	Total	С	Ν	0	S	0	1	0	
4		242	1857	1178	319	351	9	0	1	0
4	Ц	[244	Total	С	Ν	0	S	0	1	0
4	4 H	244	1890	1193	329	359	9	0	1	0

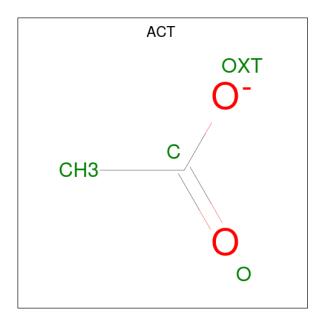
• Molecule 5 is 3,4-dimethoxybenzaldehyde (three-letter code: XIK) (formula: $C_9H_{10}O_3$) (labeled as "Ligand of Interest" by depositor).



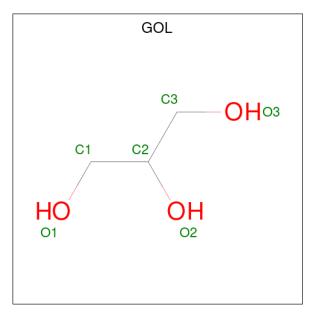
Ι	Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
	5	А	1	Total C O 11 9 2	0	0
	5	С	1	Total C O 11 9 2	0	0

• Molecule 6 is ACETATE ION (three-letter code: ACT) (formula: $C_2H_3O_2$).





Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
6	А	1	Total 4	${ m C} 2$	O 2	0	0



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
7	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
7	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0



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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	Е	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
7	F	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 6 3 3 \end{array}$	0	0

• Molecule 8 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	А	49	Total O 49 49	0	0
8	В	7	Total O 7 7	0	0
8	С	41	Total O 41 41	0	0
8	D	11	Total O 11 11	0	0
8	Е	17	Total O 17 17	0	0
8	F	12	Total O 12 12	0	0
8	G	31	Total O 31 31	0	0
8	Н	30	Total O 30 30	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.

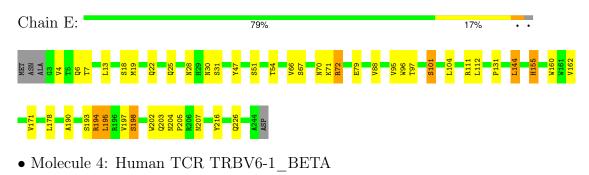
• Molecule 1: Major histocompatibility complex class I-related gene protein

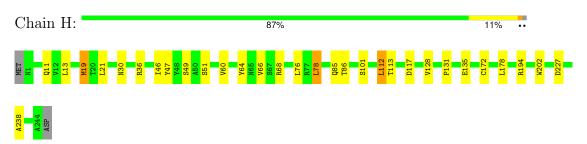


• Molecule 3: Human TCR TRAV1-2_ALPHA

Chain G:	86%	12% ••
MET 01 14 14 132 132 132 132 133 132 133 134 144 1144 1	565 K68 K68 M80 M80 M80 M80 M80 M80 M80 M80 M80 M8	K156 1.1.5 R1.62 R1.67 K1.67 K1.67 K1.67 S1.99 SER SER SER SER

 \bullet Molecule 4: Human TCR TRBV6-1_BETA







4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	216.84Å 70.28Å 143.21Å	Depositor
a, b, c, α , β , γ	90.00° 104.12° 90.00°	Depositor
Resolution (Å)	39.91 - 2.85	Depositor
Resolution (A)	39.91 - 2.85	EDS
% Data completeness	97.9 (39.91-2.85)	Depositor
(in resolution range)	92.9 (39.91-2.85)	EDS
R _{merge}	0.12	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$0.95 (at 2.86 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.20.1_4487	Depositor
D D.	0.161 , 0.223	Depositor
R, R_{free}	0.161 , 0.223	DCC
R_{free} test set	46512 reflections $(4.11%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	50.3	Xtriage
Anisotropy	0.301	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.30,47.1	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	12821	wwPDB-VP
Average B, all atoms $(Å^2)$	51.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.64% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities estimated from amplitudes.

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: ACT, GOL, XIK

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		
INIOI	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.42	0/2202	0.63	1/2997~(0.0%)	
1	С	0.42	0/2228	0.61	0/3031	
2	В	0.36	0/786	0.57	0/1075	
2	F	0.40	0/822	0.60	0/1119	
3	D	0.43	0/1441	0.61	0/1960	
3	G	0.44	0/1589	0.64	1/2158~(0.0%)	
4	Е	0.39	0/1911	0.60	0/2608	
4	Н	0.45	0/1944	0.65	0/2649	
All	All	0.42	0/12923	0.62	2/17597~(0.0%)	

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	G	159	LEU	CA-CB-CG	5.47	127.88	115.30
1	А	5	LEU	CA-CB-CG	5.02	126.84	115.30

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	А	2135	0	1989	22	0



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	С	2162	0	2038	28	0
2	В	763	0	689	9	0
2	F	799	0	740	4	0
3	D	1410	0	1300	20	0
3	G	1551	0	1457	14	0
4	Е	1857	0	1723	28	0
4	Н	1890	0	1764	21	0
5	А	11	0	0	0	0
5	С	11	0	0	0	0
6	А	4	0	3	0	0
7	А	6	0	8	0	0
7	С	12	0	16	1	0
7	Е	6	0	8	1	0
7	F	6	0	8	0	0
8	А	49	0	0	2	0
8	В	7	0	0	1	0
8	С	41	0	0	1	0
8	D	11	0	0	0	0
8	Е	17	0	0	0	0
8	F	12	0	0	0	0
8	G	31	0	0	0	0
8	Н	30	0	0	1	0
All	All	12821	0	11743	137	0

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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 6.

The worst 5 of 137 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)
4:H:19:MET:HE1	4:H:112:LEU:HD11	1.58	0.84
4:H:13:LEU:HD11	4:H:19:MET:HE2	1.64	0.79
1:C:241:TRP:HE1	7:C:302:GOL:H11	1.51	0.74
1:C:36:TYR:OH	1:C:70:GLN:NE2	2.24	0.70
1:A:210:ILE:HG13	1:A:260:HIS:HB2	1.73	0.69

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	Perce	ntiles
1	А	261/271~(96%)	256~(98%)	5(2%)	0	100	100
1	\mathbf{C}	262/271~(97%)	255~(97%)	7 (3%)	0	100	100
2	В	95/100~(95%)	93~(98%)	2(2%)	0	100	100
2	F	97/100~(97%)	97~(100%)	0	0	100	100
3	D	183/204~(90%)	174 (95%)	9~(5%)	0	100	100
3	G	200/204~(98%)	192~(96%)	8 (4%)	0	100	100
4	Ε	241/246~(98%)	229~(95%)	12 (5%)	0	100	100
4	Н	243/246~(99%)	237~(98%)	6(2%)	0	100	100
All	All	1582/1642~(96%)	1533~(97%)	49 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	Perce	ntiles
1	А	221/241~(92%)	208 (94%)	13~(6%)	16	33
1	С	225/241~(93%)	214~(95%)	11 (5%)	21	41
2	В	80/95~(84%)	73 (91%)	7~(9%)	8	17
2	F	86/95~(90%)	83~(96%)	3~(4%)	31	57
3	D	142/181~(78%)	132 (93%)	10 (7%)	12	26
3	G	169/181~(93%)	163 (96%)	6 (4%)	30	55



Mol	Chain	Analysed Rotameric Outliers		Percentiles		
4	Ε	192/212~(91%)	178~(93%)	14 (7%)	11 24	
4	Н	198/212~(93%)	193~(98%)	5(2%)	42 68	
All	All	1313/1458~(90%)	1244 (95%)	69~(5%)	19 38	

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5 of 69 residues with a non-rotameric side chain are listed below:

Mol	Chain	Res	Type
2	F	70	PHE
3	G	4	ILE
4	Н	78	LEU
1	С	74	LYS
1	С	73	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 12 such sidechains are listed below:

Mol	Chain	Res	Type
1	С	70	GLN
3	D	96	GLN
4	Н	85	GLN
3	D	184	ASN
1	А	146	ASN

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)

8 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	Turne	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
	Type	Unam	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
5	XIK	С	301	1	$11,\!11,\!12$	0.51	0	$14,\!14,\!15$	0.55	0
6	ACT	А	302	-	$3,\!3,\!3$	1.56	1 (33%)	$3,\!3,\!3$	1.26	0
7	GOL	С	303	-	$5,\!5,\!5$	0.94	0	$5,\!5,\!5$	1.23	1 (20%)
7	GOL	Е	301	-	$5,\!5,\!5$	1.02	0	$5,\!5,\!5$	0.97	0
7	GOL	С	302	-	$5,\!5,\!5$	1.14	0	$5,\!5,\!5$	0.88	0
7	GOL	F	101	-	$5,\!5,\!5$	0.90	0	$5,\!5,\!5$	1.49	1 (20%)
7	GOL	А	303	-	$5,\!5,\!5$	1.02	0	$5,\!5,\!5$	1.02	0
5	XIK	А	301	1	11,11,12	0.56	0	$14,\!14,\!15$	0.60	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
5	XIK	С	301	1	-	0/4/4/6	0/1/1/1
7	GOL	С	303	-	-	2/4/4/4	-
7	GOL	Е	301	-	-	4/4/4/4	-
7	GOL	С	302	-	-	3/4/4/4	-
7	GOL	F	101	-	-	0/4/4/4	-
7	GOL	А	303	-	-	2/4/4/4	-
5	XIK	А	301	1	-	2/4/4/6	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
6	А	302	ACT	CH3-C	2.24	1.57	1.49

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
7	F	101	GOL	C3-C2-C1	-2.66	102.05	111.80
7	С	303	GOL	C3-C2-C1	-2.02	104.39	111.80



There are no chirality outliers.

Mol	Chain	Res	Type	Atoms
7	А	303	GOL	C1-C2-C3-O3
7	С	302	GOL	O1-C1-C2-C3
7	С	303	GOL	C1-C2-C3-O3
7	Е	301	GOL	O1-C1-C2-C3
7	Е	301	GOL	C1-C2-C3-O3

5 of 13 torsion outliers are listed below:

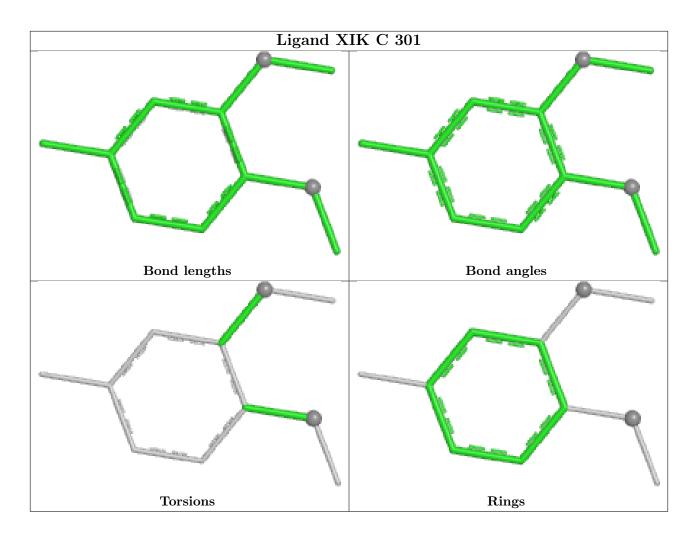
There are no ring outliers.

2 monomers are involved in 2 short contacts:

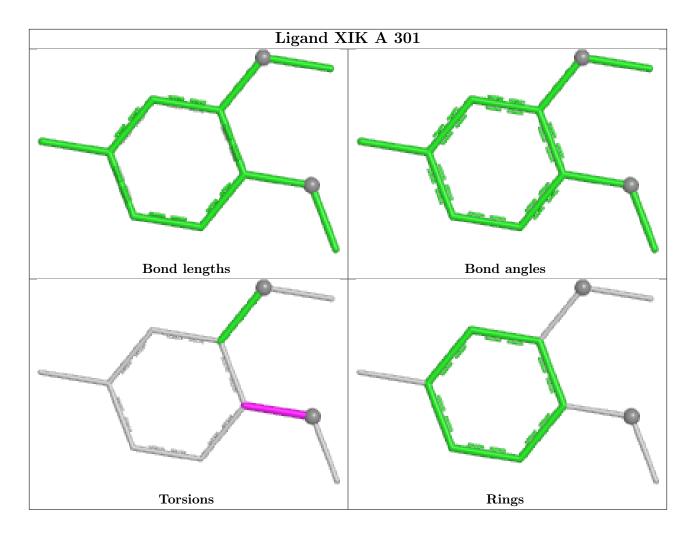
Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	Ε	301	GOL	1	0
7	С	302	GOL	1	0

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 then 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, 95^{th} 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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	264/271~(97%)	-0.65	0 100 100	26, 46, 81, 109	5 (1%)
1	С	266/271~(98%)	-0.64	1 (0%) 89 88	27, 45, 69, 90	5 (1%)
2	В	97/100~(97%)	-0.37	0 100 100	36, 65, 90, 104	0
2	F	99/100~(99%)	-0.73	0 100 100	32, 48, 72, 82	1 (1%)
3	D	189/204~(92%)	-0.35	1 (0%) 87 86	33, 55, 88, 104	2 (1%)
3	G	201/204~(98%)	-0.74	0 100 100	22, 42, 71, 79	6 (2%)
4	Е	242/246~(98%)	-0.46	0 100 100	35, 56, 85, 96	4 (1%)
4	Н	244/246~(99%)	-0.71	0 100 100	27, 43, 66, 81	6 (2%)
All	All	1602/1642~(97%)	-0.59	2 (0%) 92 94	22, 48, 81, 109	29 (1%)

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	С	222	VAL	2.7
3	D	1	GLY	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 monosaccharides in this entry.



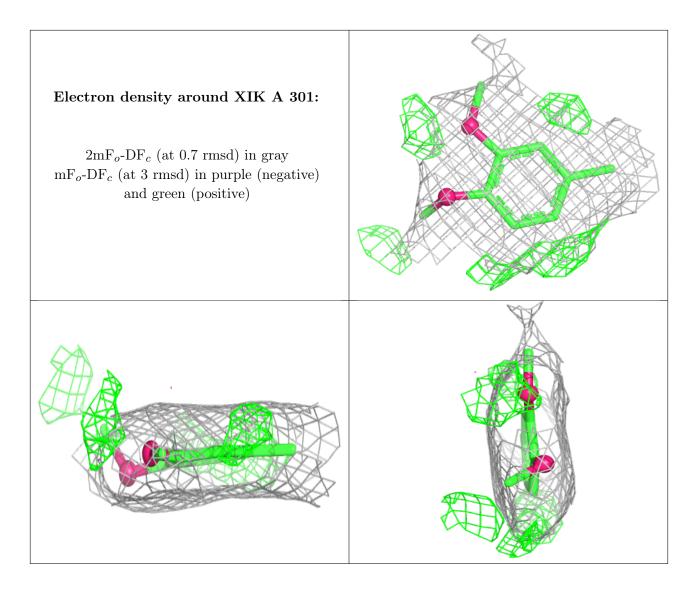
6.4 Ligands (i)

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, 95^{th} 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.

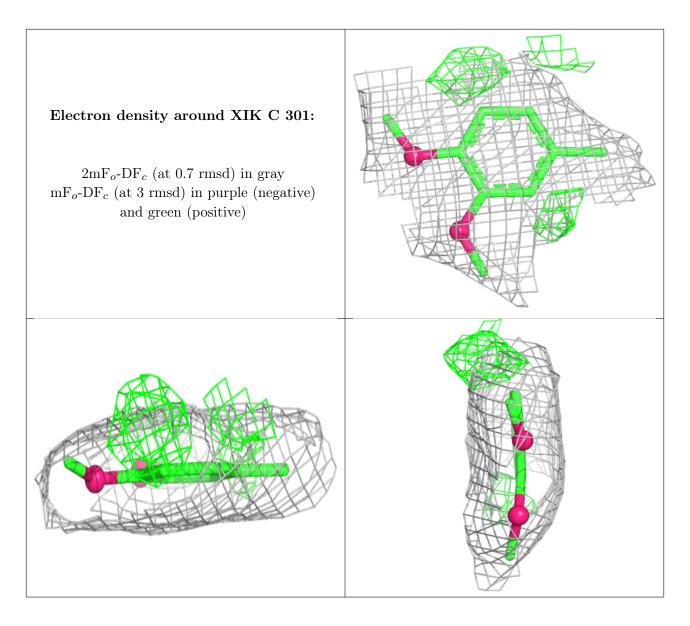
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
7	GOL	А	303	6/6	0.84	0.22	$53,\!55,\!57,\!59$	6
6	ACT	А	302	4/4	0.86	0.15	56,64,71,75	0
7	GOL	С	303	6/6	0.86	0.14	$55,\!57,\!60,\!69$	0
5	XIK	А	301	11/12	0.87	0.14	35,38,49,52	2
5	XIK	С	301	11/12	0.90	0.12	47,50,57,58	0
7	GOL	Е	301	6/6	0.90	0.11	58,63,71,72	0
7	GOL	F	101	6/6	0.92	0.11	42,46,51,51	0
7	GOL	С	302	6/6	0.93	0.11	56,57,62,63	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.

