



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 09:52 AM UTC

PDB ID : 6W86 / pdb_00006w86
Title : K2P2.1 (TREK-1):ML335 complex, 100 mM K+
Authors : Lolicato, M.; Minor, D.L.
Deposited on : 2020-03-20
Resolution : 3.30 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 ⓘ 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

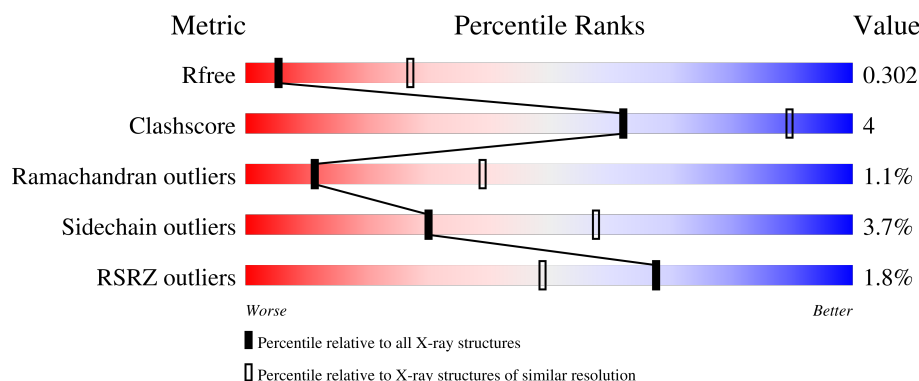
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.30 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	1169 (3.32-3.28)
Clashscore	190562	1209 (3.32-3.28)
Ramachandran outliers	187476	1188 (3.32-3.28)
Sidechain outliers	187428	1187 (3.32-3.28)
RSRZ outliers	180081	1169 (3.32-3.28)

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	312	% 74% 14% 12%
1	B	312	2% 75% 15% 10%

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
5	LNK	B	409	-	-	X	-

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 4516 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 Potassium channel subfamily K member 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	276	Total	C	N	O	S	0	1	0
			2167	1446	341	375	5			
1	B	281	Total	C	N	O	S	0	0	0
			2182	1453	345	379	5			

There are 46 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	20	MET	-	expression tag	UNP P97438
A	84	ARG	LYS	engineered mutation	UNP P97438
A	85	GLU	GLN	engineered mutation	UNP P97438
A	86	LYS	THR	engineered mutation	UNP P97438
A	88	LEU	ILE	engineered mutation	UNP P97438
A	89	ARG	ALA	engineered mutation	UNP P97438
A	90	ALA	GLN	engineered mutation	UNP P97438
A	92	PRO	ALA	engineered mutation	UNP P97438
A	95	SER	ASN	engineered mutation	UNP P97438
A	96	ASP	SER	engineered mutation	UNP P97438
A	97	GLN	THR	engineered mutation	UNP P97438
A	119	ALA	ASN	engineered mutation	UNP P97438
A	300	ALA	SER	engineered mutation	UNP P97438
A	306	ALA	GLU	engineered mutation	UNP P97438
A	323	SER	-	expression tag	UNP P97438
A	324	ASN	-	expression tag	UNP P97438
A	325	SER	-	expression tag	UNP P97438
A	326	LEU	-	expression tag	UNP P97438
A	327	GLU	-	expression tag	UNP P97438
A	328	VAL	-	expression tag	UNP P97438
A	329	LEU	-	expression tag	UNP P97438
A	330	PHE	-	expression tag	UNP P97438
A	331	GLN	-	expression tag	UNP P97438
B	20	MET	-	expression tag	UNP P97438
B	84	ARG	LYS	engineered mutation	UNP P97438

Continued on next page...

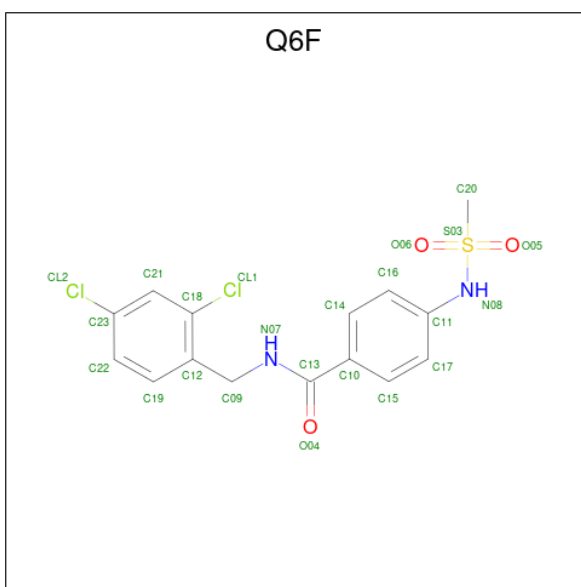
Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
B	85	GLU	GLN	engineered mutation	UNP P97438
B	86	LYS	THR	engineered mutation	UNP P97438
B	88	LEU	ILE	engineered mutation	UNP P97438
B	89	ARG	ALA	engineered mutation	UNP P97438
B	90	ALA	GLN	engineered mutation	UNP P97438
B	92	PRO	ALA	engineered mutation	UNP P97438
B	95	SER	ASN	engineered mutation	UNP P97438
B	96	ASP	SER	engineered mutation	UNP P97438
B	97	GLN	THR	engineered mutation	UNP P97438
B	119	ALA	ASN	engineered mutation	UNP P97438
B	300	ALA	SER	engineered mutation	UNP P97438
B	306	ALA	GLU	engineered mutation	UNP P97438
B	323	SER	-	expression tag	UNP P97438
B	324	ASN	-	expression tag	UNP P97438
B	325	SER	-	expression tag	UNP P97438
B	326	LEU	-	expression tag	UNP P97438
B	327	GLU	-	expression tag	UNP P97438
B	328	VAL	-	expression tag	UNP P97438
B	329	LEU	-	expression tag	UNP P97438
B	330	PHE	-	expression tag	UNP P97438
B	331	GLN	-	expression tag	UNP P97438

- Molecule 2 is POTASSIUM ION (CCD ID: K) (formula: K).

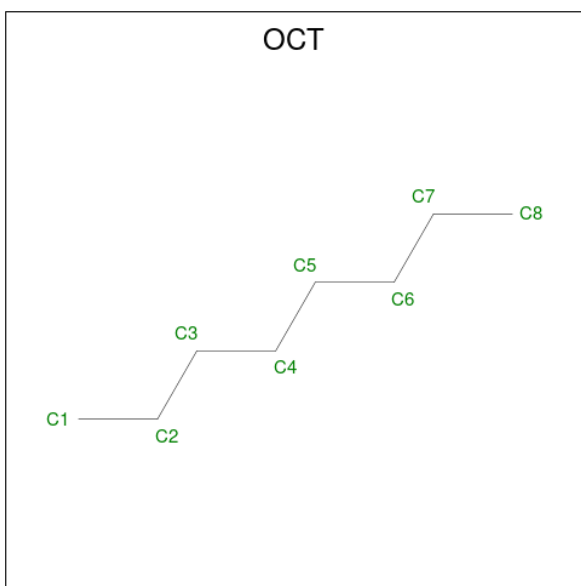
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	4	Total K 4 4	0	0
2	B	1	Total K 1 1	0	0

- Molecule 3 is N-[(2,4-dichlorophenyl)methyl]-4-[(methylsulfonyl)amino]benzamide (CCD ID: Q6F) (formula: C₁₅H₁₄Cl₂N₂O₃S).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
3	A	1	Total	C	Cl	N	O	S	0	0
			23	15	2	2	3	1		
3	B	1	Total	C	Cl	N	O	S	0	0
			23	15	2	2	3	1		

- Molecule 4 is N-OCTANE (CCD ID: OCT) (formula: C₈H₁₈).



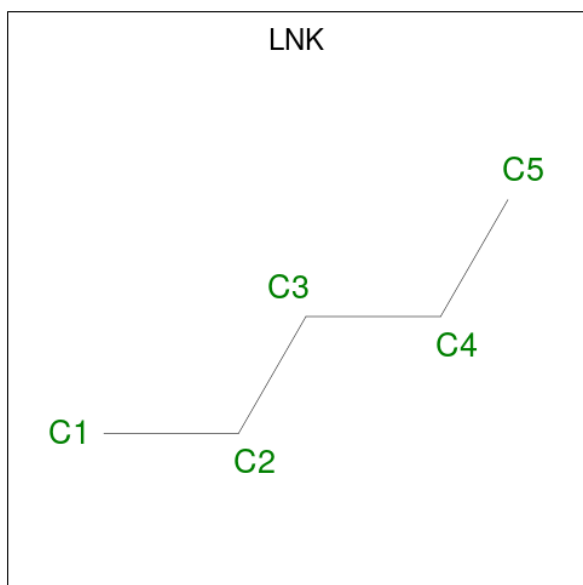
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	C	0	0
			8	8		
4	A	1	Total	C	0	0
			8	8		

Continued on next page...

Continued from previous page...

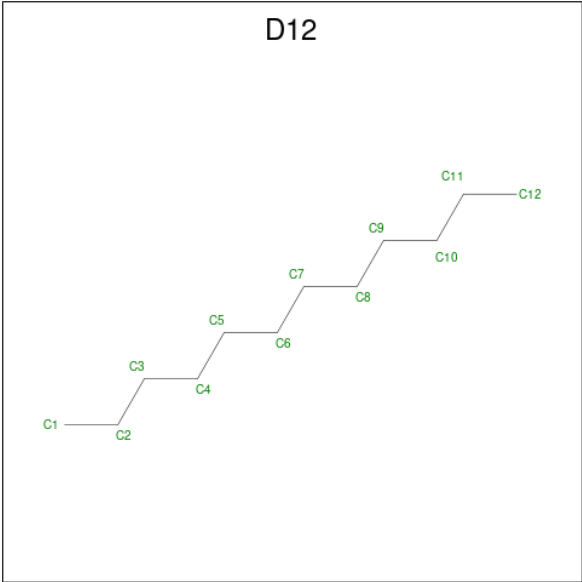
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	B	1	Total C 8 8	0	0
4	B	1	Total C 8 8	0	0

- Molecule 5 is PENTANE (CCD ID: LNK) (formula: C₅H₁₂).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C 5 5	0	0
5	B	1	Total C 5 5	0	0
5	B	1	Total C 5 5	0	0

- Molecule 6 is DODECANE (CCD ID: D12) (formula: C₁₂H₂₆).

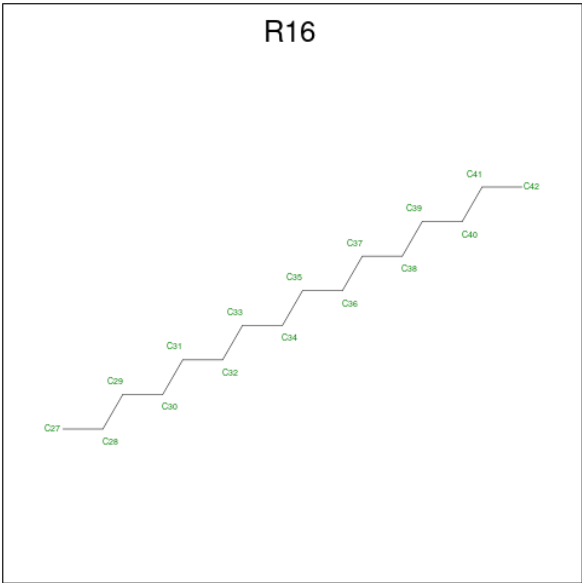


Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	1	Total	C	0	0
			12	12		
6	A	1	Total	C	0	0
			12	12		

- Molecule 7 is CADMIUM ION (CCD ID: CD) (formula: Cd).

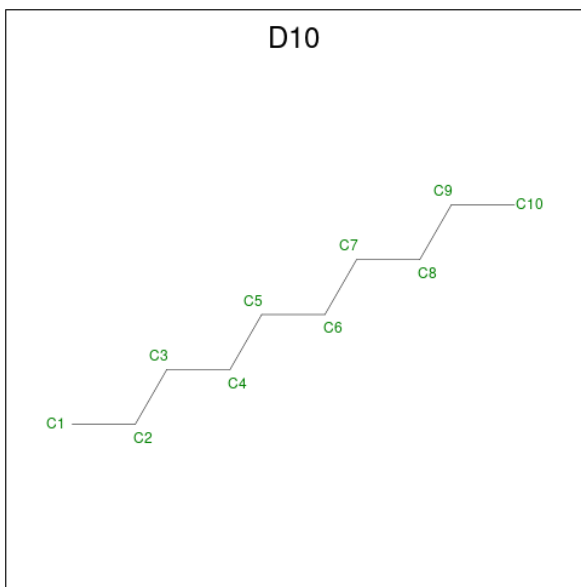
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	B	3	Total	Cd	0	0
			3	3		

- Molecule 8 is HEXADECANE (CCD ID: R16) (formula: C₁₆H₃₄).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	B	1	Total	C	0	0
			16	16		
8	B	1	Total	C	0	0
			16	16		

- Molecule 9 is DECANE (CCD ID: D10) (formula: $C_{10}H_{22}$).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	B	1	Total	C	0	0
			10	10		

- Molecule 1: Potassium channel subfamily K member 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	67.32Å 120.13Å 129.43Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	14.94 – 3.30 14.94 – 3.30	Depositor EDS
% Data completeness (in resolution range)	98.2 (14.94-3.30) 96.9 (14.94-3.30)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.15 (at 3.32Å)	Xtriage
Refinement program	BUSTER 2.10.3 (6-FEB-2020)	Depositor
R, R_{free}	0.250 , 0.288 0.267 , 0.302	Depositor DCC
R_{free} test set	899 reflections (5.65%)	wwPDB-VP
Wilson B-factor (Å ²)	119.9	Xtriage
Anisotropy	0.224	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.23 , 80.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	4516	wwPDB-VP
Average B, all atoms (Å ²)	146.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.80% 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: LNK, CD, K, Q6F, D12, D10, OCT, R16

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	0.73	0/2224	1.00	5/3024 (0.2%)
1	B	0.73	0/2234	0.98	3/3037 (0.1%)
All	All	0.73	0/4458	0.99	8/6061 (0.1%)

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	B	0	1

There are no bond length outliers.

The worst 5 of 8 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	B	261	GLY	N-CA-C	7.11	121.26	112.73
1	A	203	GLN	N-CA-C	6.35	118.22	110.41
1	B	252	ILE	N-CA-C	-6.34	104.46	110.42
1	A	252	ILE	N-CA-C	-5.79	104.98	110.42
1	B	68	LEU	N-CA-C	5.52	117.38	111.36

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	268	ASP	Peptide

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	2167	0	2217	19	0
1	B	2182	0	2242	18	0
2	A	4	0	0	0	0
2	B	1	0	0	0	0
3	A	23	0	0	0	0
3	B	23	0	0	1	0
4	A	16	0	36	0	0
4	B	16	0	36	5	0
5	A	5	0	12	0	0
5	B	10	0	24	5	0
6	A	24	0	52	0	0
7	B	3	0	0	0	0
8	B	32	0	68	0	0
9	B	10	0	22	0	0
All	All	4516	0	4709	38	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 4.

The worst 5 of 38 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:57:TYR:CE2	1:B:162:TYR:CE1	2.85	0.65
1:B:210:SER:O	1:B:213:ILE:HG22	1.99	0.62
1:B:197:ILE:HA	1:B:201:VAL:HG11	1.83	0.60
1:A:197:ILE:HD11	1:A:206:ILE:HG21	1.82	0.60
1:A:162:TYR:CE1	1:B:57:TYR:CE2	2.90	0.60

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	273/312 (88%)	253 (93%)	17 (6%)	3 (1%)	11	39
1	B	277/312 (89%)	251 (91%)	23 (8%)	3 (1%)	11	39
All	All	550/624 (88%)	504 (92%)	40 (7%)	6 (1%)	11	39

5 of 6 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	201	VAL
1	A	199	TRP
1	B	264	ILE
1	B	314	ALA
1	A	315	ALA

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	228/260 (88%)	221 (97%)	7 (3%)	35	60
1	B	230/260 (88%)	220 (96%)	10 (4%)	26	54
All	All	458/520 (88%)	441 (96%)	17 (4%)	30	58

5 of 17 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	202	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	269	PHE
1	B	35	SER
1	B	39	ILE
1	B	66	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	180	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](#)

Of 22 ligands modelled in this entry, 8 are monoatomic - leaving 14 for Mogul analysis.

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	$\# Z > 2$
8	R16	B	406	-	15,15,15	0.59	0	14,14,14	0.30	0
5	LNK	B	409	-	4,4,4	0.42	0	3,3,3	0.49	0
5	LNK	A	408	-	4,4,4	0.48	0	3,3,3	0.31	0
6	D12	A	409	-	11,11,11	0.42	0	10,10,10	0.66	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	Q6F	B	404	-	24,24,24	1.79	6 (25%)	34,34,34	2.76	10 (29%)
4	OCT	A	406	-	7,7,7	0.42	0	6,6,6	0.52	0
4	OCT	B	408	-	7,7,7	0.52	0	6,6,6	0.26	0
6	D12	A	410	-	11,11,11	0.49	0	10,10,10	0.36	0
8	R16	B	405	-	15,15,15	0.49	0	14,14,14	0.47	0
9	D10	B	411	-	9,9,9	0.56	0	8,8,8	0.26	0
5	LNK	B	410	-	4,4,4	0.47	0	3,3,3	0.31	0
3	Q6F	A	403	-	24,24,24	1.83	3 (12%)	34,34,34	2.49	10 (29%)
4	OCT	A	407	-	7,7,7	0.48	0	6,6,6	0.17	0
4	OCT	B	407	-	7,7,7	0.62	0	6,6,6	0.49	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
8	R16	B	406	-	-	8/13/13/13	-
5	LNK	B	409	-	-	0/2/2/2	-
5	LNK	A	408	-	-	1/2/2/2	-
6	D12	A	409	-	-	3/9/9/9	-
3	Q6F	B	404	-	-	3/14/14/14	0/2/2/2
4	OCT	A	406	-	-	1/5/5/5	-
4	OCT	B	408	-	-	3/5/5/5	-
6	D12	A	410	-	-	4/9/9/9	-
8	R16	B	405	-	-	7/13/13/13	-
9	D10	B	411	-	-	3/7/7/7	-
5	LNK	B	410	-	-	0/2/2/2	-
3	Q6F	A	403	-	-	3/14/14/14	0/2/2/2
4	OCT	A	407	-	-	3/5/5/5	-
4	OCT	B	407	-	-	0/5/5/5	-

The worst 5 of 9 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	403	Q6F	C13-N07	6.40	1.47	1.33
3	B	404	Q6F	C13-N07	5.09	1.45	1.33
3	A	403	Q6F	C10-C13	3.08	1.57	1.50
3	B	404	Q6F	C11-N08	3.08	1.48	1.43
3	B	404	Q6F	C10-C13	2.97	1.56	1.50

The worst 5 of 20 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	404	Q6F	O06-S03-O05	-12.28	102.41	118.87
3	A	403	Q6F	O06-S03-O05	-8.60	107.35	118.87
3	A	403	Q6F	C12-C09-N07	-4.87	103.33	113.15
3	B	404	Q6F	C17-C11-N08	-4.27	111.02	120.02
3	B	404	Q6F	C21-C18-C12	-4.13	118.81	122.41

There are no chirality outliers.

5 of 39 torsion outliers are listed below:

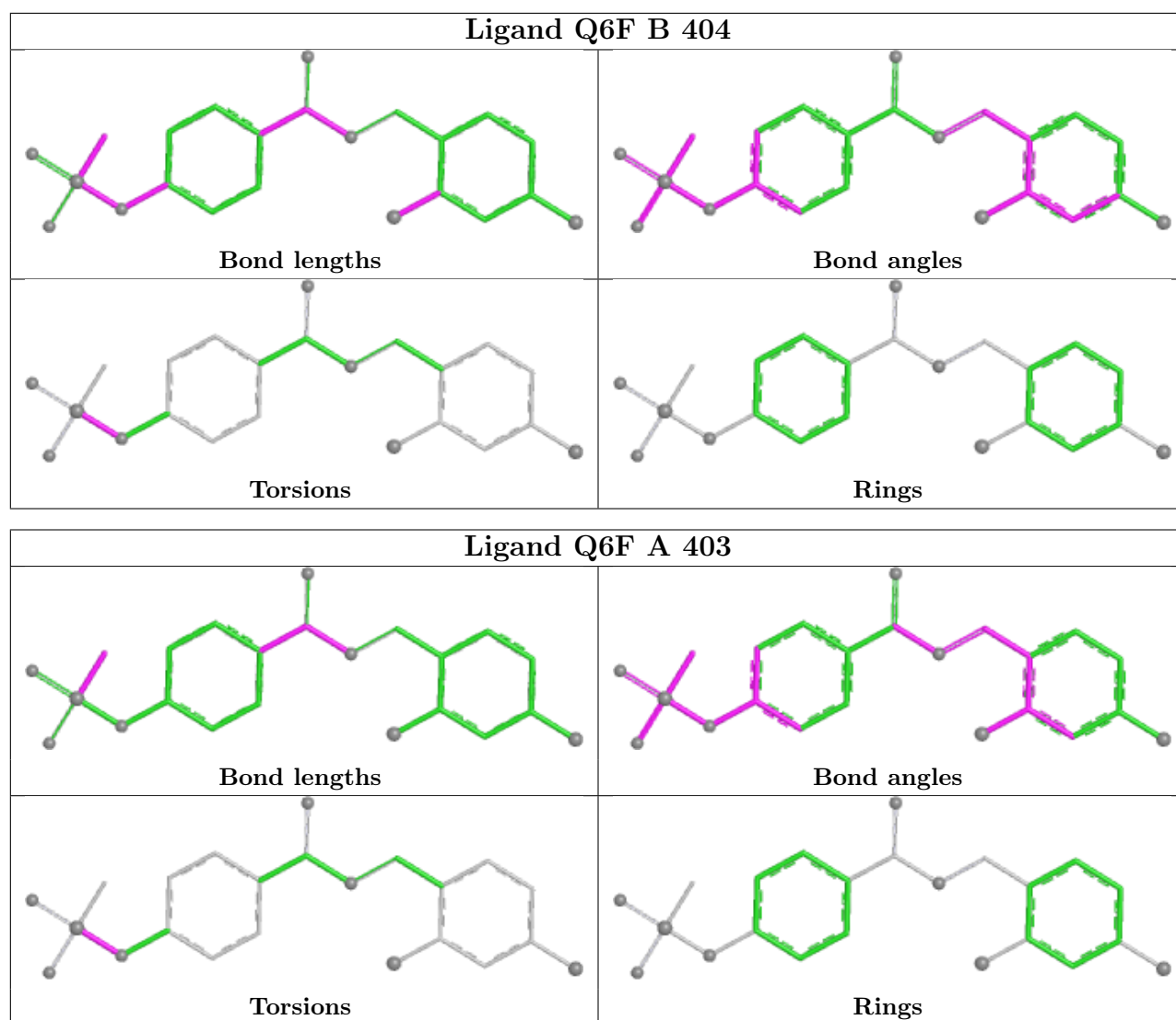
Mol	Chain	Res	Type	Atoms
3	A	403	Q6F	C11-N08-S03-C20
3	A	403	Q6F	C11-N08-S03-O05
9	B	411	D10	C5-C6-C7-C8
8	B	406	R16	C28-C29-C30-C31
8	B	406	R16	C36-C37-C38-C39

There are no ring outliers.

3 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	B	409	LNK	5	0
3	B	404	Q6F	1	0
4	B	407	OCT	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	276/312 (88%)	-0.05	3 (1%)	78 60	79, 135, 224, 285	1 (0%)
1	B	281/312 (90%)	-0.07	7 (2%)	58 39	86, 138, 230, 278	0
All	All	557/624 (89%)	-0.06	10 (1%)	67 49	79, 137, 227, 285	1 (0%)

The worst 5 of 10 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	312	ALA	4.6
1	B	255	GLY	3.4
1	A	72	GLN	3.2
1	B	256	ASP	3.2
1	A	197	ILE	3.1

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](#)

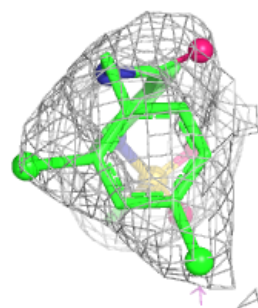
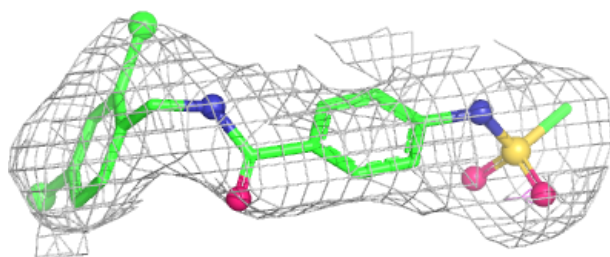
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	OCT	A	406	8/8	0.58	0.21	127,130,136,137	0
5	LNK	A	408	5/5	0.64	0.17	102,102,102,102	0
5	LNK	B	410	5/5	0.69	0.21	103,103,103,103	0
9	D10	B	411	10/10	0.73	0.36	110,121,134,135	0
8	R16	B	406	16/16	0.74	0.10	157,161,165,165	0
5	LNK	B	409	5/5	0.76	0.11	101,101,101,101	0
6	D12	A	409	12/12	0.78	0.16	113,118,119,119	0
6	D12	A	410	12/12	0.78	0.18	112,119,121,121	0
4	OCT	B	408	8/8	0.80	0.27	138,141,153,155	0
4	OCT	B	407	8/8	0.81	0.15	94,95,96,96	0
8	R16	B	405	16/16	0.81	0.11	125,133,144,146	0
2	K	B	412	1/1	0.83	0.12	169,169,169,169	0
3	Q6F	A	403	23/23	0.89	0.09	127,132,137,138	0
2	K	A	404	1/1	0.89	0.07	100,100,100,100	0
3	Q6F	B	404	23/23	0.90	0.09	92,117,137,137	0
4	OCT	A	407	8/8	0.90	0.20	107,111,118,119	0
7	CD	B	403	1/1	0.91	0.16	189,189,189,189	1
2	K	A	401	1/1	0.92	0.08	100,100,100,100	0
2	K	A	405	1/1	0.92	0.05	83,83,83,83	0
7	CD	B	401	1/1	0.95	0.05	222,222,222,222	0
7	CD	B	402	1/1	0.98	0.04	147,147,147,147	0
2	K	A	402	1/1	0.99	0.02	96,96,96,96	0

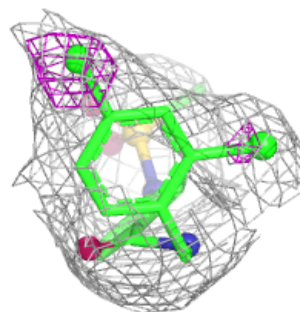
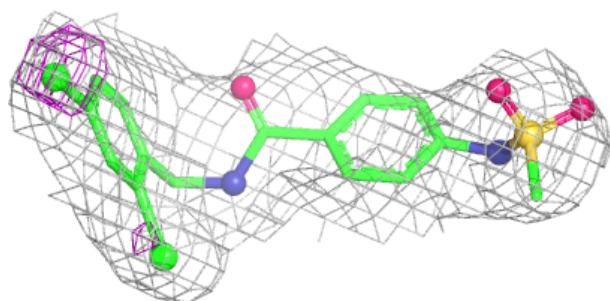
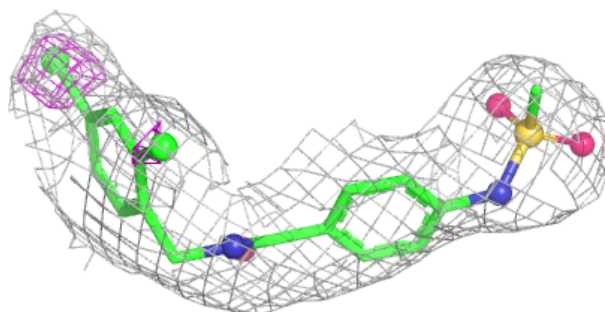
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around Q6F A 403:

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

**Electron density around Q6F B 404:**

$2mF_o - DF_c$ (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.