



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 9, 2026 – 06:10 AM UTC

PDB ID : 6CQ9 / pdb_00006cq9
Title : K2P2.1(TREK-1):ML402 complex
Authors : Lolicato, M.; Minor, D.L.
Deposited on : 2018-03-14
Resolution : 2.80 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

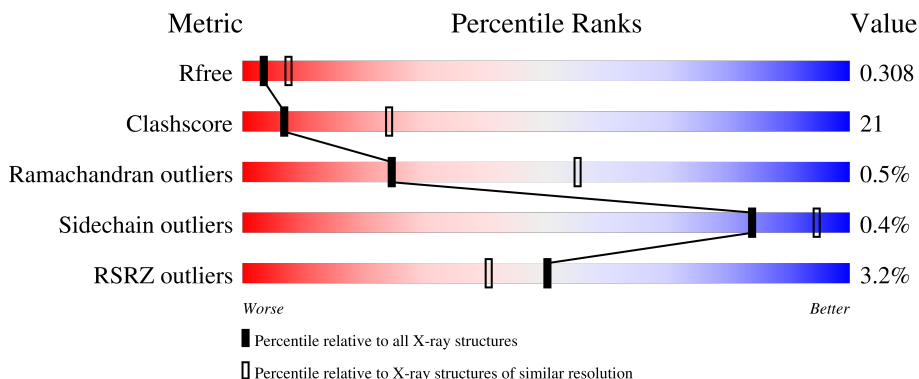
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.80 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	3866 (2.80-2.80)
Clashscore	190562	4276 (2.80-2.80)
Ramachandran outliers	187476	4196 (2.80-2.80)
Sidechain outliers	187428	4198 (2.80-2.80)
RSRZ outliers	180081	3869 (2.80-2.80)

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	
1	B	312	

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 4549 atoms, of which 48 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	0	0
			2155	1436	340	374	5			
1	B	282	Total	C	N	O	S	0	0	0
			2173	1442	346	380	5			

There are 46 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	20	MET	LEU	initiating methionine	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	ALA	engineered mutation	UNP P97438
A	324	ASN	GLU	engineered mutation	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	LEU	initiating methionine	UNP P97438
B	84	ARG	LYS	engineered mutation	UNP P97438

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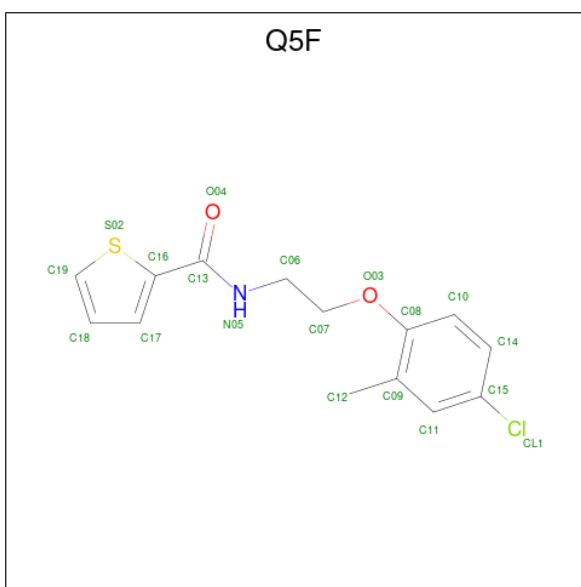
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Chain	Residue	Modelled	Actual	Comment	Reference
B	85	GLU	GLN	engineered mutation	UNP P97438
B	86	LYS	THR	engineered mutation	UNP P97438
B	88	LEU	ILE	engineered mutation	UNP P97438
B	89	ARG	ALA	engineered mutation	UNP P97438
B	90	ALA	GLN	engineered 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	ALA	engineered mutation	UNP P97438
B	324	ASN	GLU	engineered mutation	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).

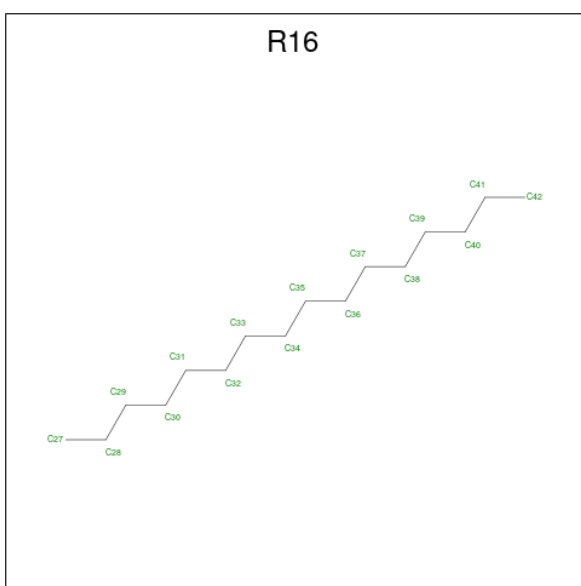
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	3	Total K 3 3	0	0
2	B	2	Total K 2 2	0	0

- Molecule 3 is N-[2-(4-chloro-2-methylphenoxy)ethyl]thiophene-2-carboxamide (CCD ID: Q5F) (formula: C₁₄H₁₄ClNO₂S).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
3	A	1	Total	C	Cl	N	O	S	0	0
			19	14	1	1	2	1		
3	B	1	Total	C	Cl	N	O	S	0	0
			19	14	1	1	2	1		

- Molecule 4 is HEXADECANE (CCD ID: R16) (formula: $C_{16}H_{34}$).



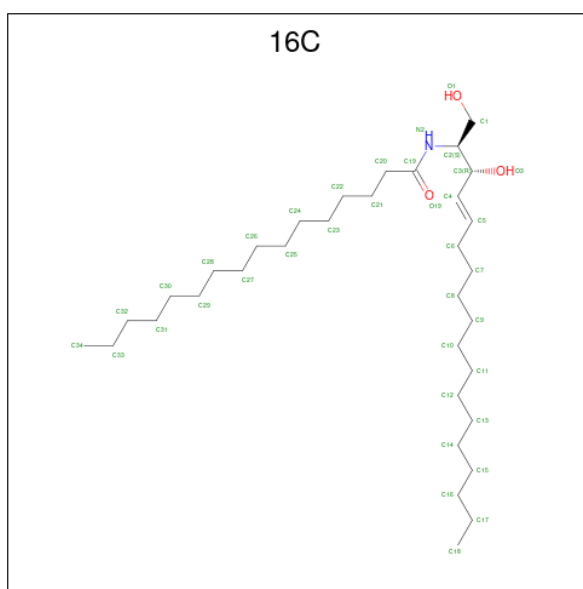
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	C	0	0
			12	12		
4	A	1	Total	C	0	0
			11	11		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C H 22 8 14	0	0
4	B	1	Total C 12 12	0	0
4	B	1	Total C 12 12	0	0
4	B	1	Total C 5 5	0	0
4	B	1	Total C H 13 5 8	0	0
4	B	1	Total C H 13 5 8	0	0
4	B	1	Total C 11 11	0	0
4	B	1	Total C H 28 10 18	0	0

- Molecule 5 is N-((E,2S,3R)-1,3-DIHYDROXYOCTADEC-4-EN-2-YL)PALMITAMIDE (CCD ID: 16C) (formula: C₃₄H₆₇NO₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C N O 38 34 1 3	0	0

- Molecule 6 is CADMIUM ION (CCD ID: CD) (formula: Cd).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	B	1	Total	Cd	0	0
			1	1		

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	67.09Å 119.56Å 127.22Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	15.00 – 2.80 15.00 – 2.80	Depositor EDS
% Data completeness (in resolution range)	98.3 (15.00-2.80) 99.0 (15.00-2.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.12 (at 2.81Å)	Xtriage
Refinement program	PHENIX (1.11.1 _2575: ???)	Depositor
R, R_{free}	0.265 , 0.309 0.270 , 0.308	Depositor DCC
R_{free} test set	1236 reflections (4.81%)	wwPDB-VP
Wilson B-factor (Å ²)	97.9	Xtriage
Anisotropy	0.222	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 115.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4549	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 4.12% 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: Q5F, K, 16C, R16, CD

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	0.26	1/2208 (0.0%)	0.39	0/3003
1	B	0.14	0/2226	0.39	3/3027 (0.1%)
All	All	0.21	1/4434 (0.0%)	0.39	3/6030 (0.0%)

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	0	1
1	B	0	2
All	All	0	3

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	48	SER	C-N	-7.33	1.24	1.33

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	313	HIS	CA-C-N	7.38	135.63	121.54
1	B	313	HIS	C-N-CA	7.38	135.63	121.54
1	B	313	HIS	CB-CA-C	-6.82	102.19	114.52

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	199	TRP	Peptide
1	B	263	ASP	Peptide
1	B	95	SER	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	2155	0	2201	105	5
1	B	2173	0	2196	103	1
2	A	3	0	0	0	0
2	B	2	0	0	0	0
3	A	19	0	0	1	0
3	B	19	0	0	3	0
4	A	31	14	50	0	0
4	B	60	34	92	0	0
5	A	38	0	67	3	0
6	B	1	0	0	0	0
All	All	4501	48	4606	194	5

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 21.

The worst 5 of 194 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:197:ILE:HG23	1:A:206:ILE:HD13	1.33	1.08
1:A:197:ILE:HD12	1:A:206:ILE:HG21	1.48	0.93
1:A:193:GLU:HA	1:A:197:ILE:HG13	1.53	0.90
1:A:262:SER:O	1:A:266:TYR:OH	1.88	0.90
1:B:229:ILE:HG23	1:B:233:ILE:HD13	1.56	0.88

All (5) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:37:SER:CA	1:A:268:ASP:OD2[1_455]	1.93	0.27
1:A:37:SER:OG	1:A:268:ASP:CG[1_455]	2.13	0.07
1:A:37:SER:OG	1:A:268:ASP:OD1[1_455]	2.17	0.03
1:A:37:SER:OG	1:A:268:ASP:OD2[1_455]	2.17	0.03
1:A:96:ASP:OD1	1:B:301:LYS:NZ[3_545]	2.19	0.01

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	272/312 (87%)	265 (97%)	7 (3%)	0	100	100
1	B	280/312 (90%)	264 (94%)	13 (5%)	3 (1%)	11	36
All	All	552/624 (88%)	529 (96%)	20 (4%)	3 (0%)	24	55

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	264	ILE
1	B	314	ALA
1	B	267	LEU

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	226/260 (87%)	224 (99%)	2 (1%)	70	89

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	224/260 (86%)	224 (100%)	0	100	100
All	All	450/520 (86%)	448 (100%)	2 (0%)	84	94

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	196	PHE
1	A	320	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	70	GLN
1	A	91	HIS
1	A	320	ASN
1	B	70	GLN
1	B	126	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 19 ligands modelled in this entry, 6 are monoatomic - leaving 13 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
4	R16	A	408	-	7,7,15	0.31	0	6,6,14	0.75	0
4	R16	B	410	-	10,10,15	0.30	0	9,9,14	0.83	0
4	R16	B	405	-	11,11,15	0.31	0	10,10,14	0.84	0
4	R16	B	408	-	4,4,15	0.33	0	3,3,14	0.59	0
3	Q5F	A	404	-	20,20,20	2.79	11 (55%)	26,26,26	2.01	5 (19%)
3	Q5F	B	404	-	20,20,20	2.84	10 (50%)	26,26,26	1.93	3 (11%)
4	R16	B	409	-	4,4,15	0.33	0	3,3,14	0.57	0
4	R16	B	411	-	9,9,15	0.33	0	8,8,14	0.78	0
5	16C	A	406	-	36,37,37	1.12	2 (5%)	37,39,39	1.08	2 (5%)
4	R16	B	406	-	11,11,15	0.30	0	10,10,14	0.82	0
4	R16	B	407	-	4,4,15	0.34	0	3,3,14	0.58	0
4	R16	A	405	-	11,11,15	0.31	0	10,10,14	0.83	0
4	R16	A	407	-	10,10,15	0.31	0	9,9,14	0.82	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	R16	A	408	-	-	0/5/5/13	-
4	R16	B	410	-	-	3/8/8/13	-
4	R16	B	405	-	-	5/9/9/13	-
4	R16	B	408	-	-	1/2/2/13	-
3	Q5F	A	404	-	-	6/11/11/11	0/2/2/2
3	Q5F	B	404	-	-	4/11/11/11	0/2/2/2
4	R16	B	409	-	-	0/2/2/13	-
4	R16	B	411	-	-	0/7/7/13	-
5	16C	A	406	-	-	19/40/40/40	-
4	R16	B	406	-	-	2/9/9/13	-
4	R16	B	407	-	-	0/2/2/13	-
4	R16	A	405	-	-	1/9/9/13	-
4	R16	A	407	-	-	2/8/8/13	-

The worst 5 of 23 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	404	Q5F	C13-N05	7.56	1.46	1.33
3	A	404	Q5F	C13-N05	7.34	1.46	1.33
5	A	406	16C	C19-N2	5.51	1.45	1.34
3	A	404	Q5F	C08-C09	4.53	1.49	1.39
3	B	404	Q5F	C08-C09	4.15	1.48	1.39

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	404	Q5F	C16-C13-N05	5.43	123.57	117.09
3	A	404	Q5F	O03-C07-C06	5.17	119.48	107.90
3	A	404	Q5F	C16-C13-N05	5.06	123.13	117.09
3	B	404	Q5F	O03-C07-C06	4.82	118.69	107.90
3	B	404	Q5F	O04-C13-N05	-4.24	115.70	123.35

There are no chirality outliers.

5 of 43 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	406	16C	O1-C1-C2-C3
5	A	406	16C	C2-C3-C4-C5
5	A	406	16C	O3-C3-C4-C5
3	A	404	Q5F	N05-C06-C07-O03
3	B	404	Q5F	N05-C06-C07-O03

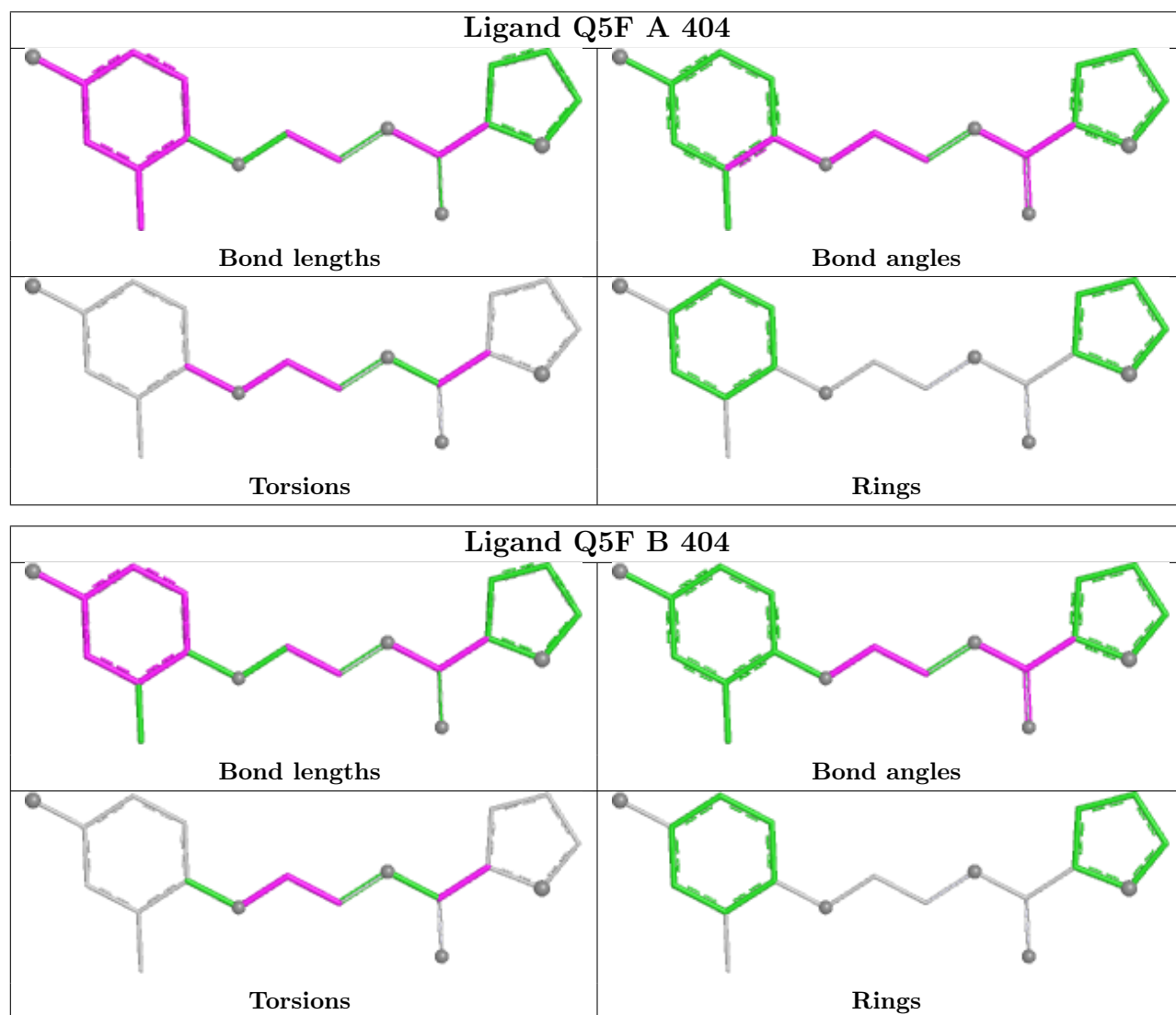
There are no ring outliers.

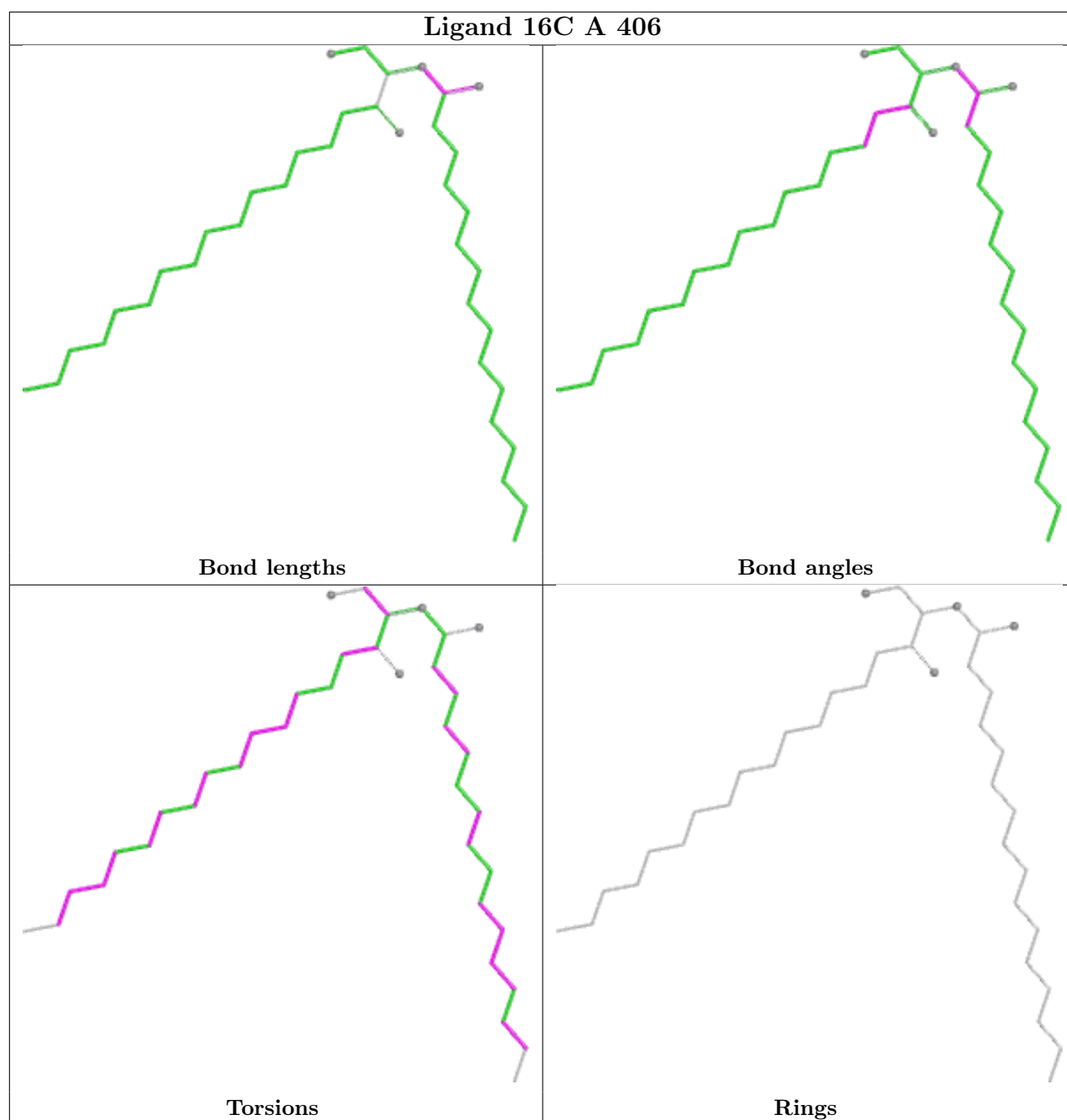
3 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	404	Q5F	1	0
3	B	404	Q5F	3	0
5	A	406	16C	3	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%)	0.10	9 (3%)	49	39	76, 130, 236, 284	0
1	B	282/312 (90%)	0.12	9 (3%)	50	40	72, 135, 240, 324	0
All	All	558/624 (89%)	0.11	18 (3%)	50	40	72, 133, 240, 324	0

The worst 5 of 18 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	309	GLU	4.6
1	B	107	VAL	3.8
1	A	307	VAL	3.4
1	A	40	ASN	3.0
1	A	312	ALA	2.9

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](#)

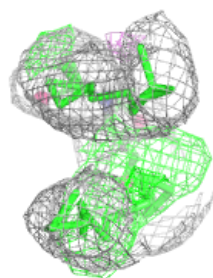
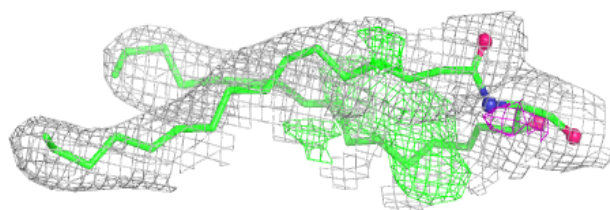
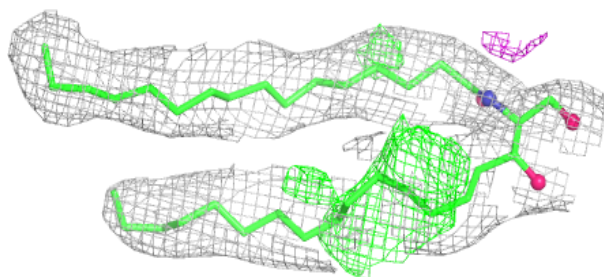
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists 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	R16	B	409	5/16	0.67	0.15	118,142,150,164	0
4	R16	B	411	10/16	0.70	0.20	96,143,172,190	0
5	16C	A	406	38/38	0.72	0.14	95,114,145,173	0
4	R16	B	408	5/16	0.77	0.29	101,129,146,155	0
4	R16	A	407	11/16	0.77	0.11	78,102,129,133	0
4	R16	B	407	5/16	0.81	0.18	93,99,112,123	0
4	R16	A	408	8/16	0.82	0.09	109,154,188,188	0
4	R16	A	405	12/16	0.85	0.09	86,114,133,135	0
4	R16	B	410	11/16	0.86	0.07	99,113,134,139	0
4	R16	B	406	12/16	0.87	0.12	75,102,120,120	0
4	R16	B	405	12/16	0.89	0.12	82,106,128,130	0
3	Q5F	B	404	19/19	0.92	0.10	80,103,153,155	0
3	Q5F	A	404	19/19	0.92	0.10	75,114,130,136	0
2	K	A	401	1/1	0.94	0.10	150,150,150,150	0
6	CD	B	403	1/1	0.94	0.07	165,165,165,165	0
2	K	A	403	1/1	0.95	0.09	131,131,131,131	0
2	K	B	402	1/1	0.95	0.11	112,112,112,112	0
2	K	B	401	1/1	0.97	0.05	96,96,96,96	0
2	K	A	402	1/1	0.97	0.07	122,122,122,122	0

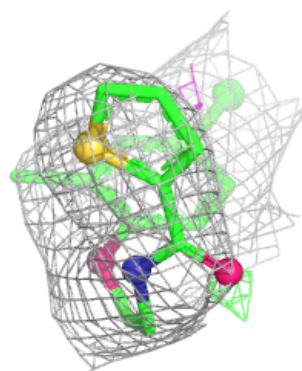
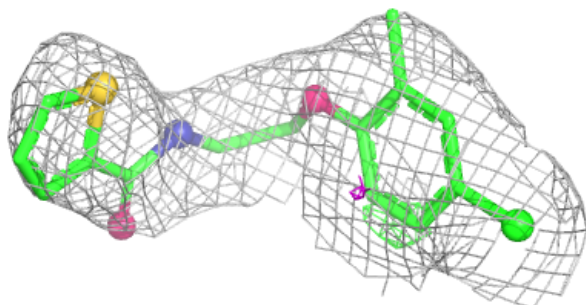
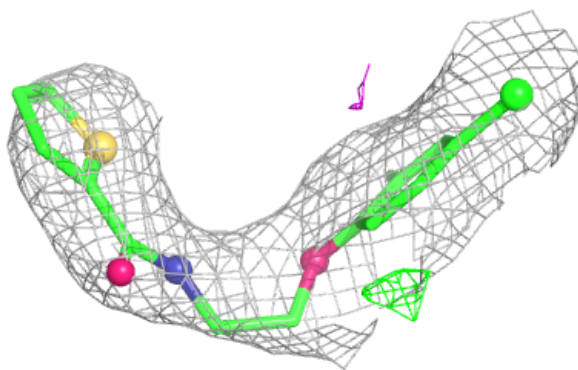
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around 16C A 406:

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

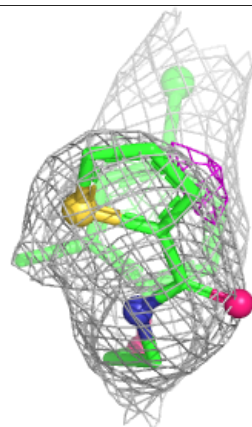
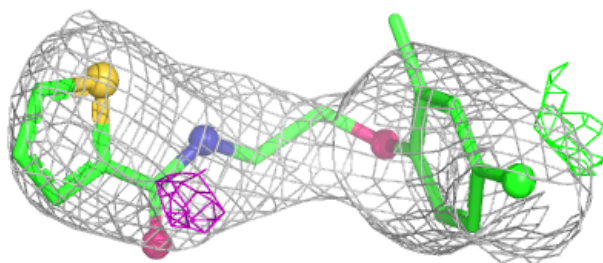
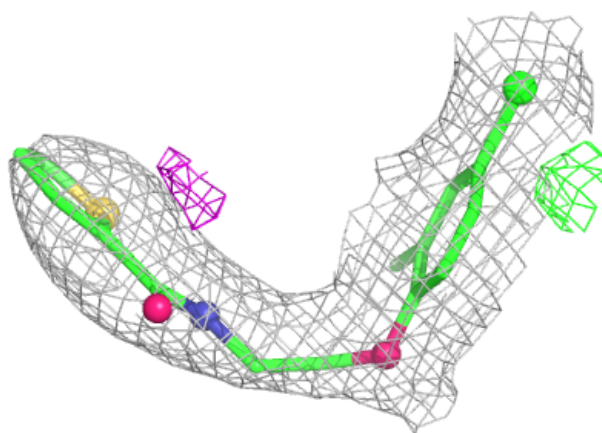
**Electron density around Q5F B 404:**

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



Electron density around Q5F A 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 ⓘ

There are no such residues in this entry.