



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 2, 2023 – 10:19 AM EDT

PDB ID : 3QV6
Title : Crystal structure of Leishmania mexicana pyruvate kinase(LmPYK)in complex with acid blue 80.
Authors : Morgan, H.P.; Auld, D.S.; McNae, I.W.; Nowicki, M.W.; Michels, P.A.M.; Fothergill-Gilmore, L.A.; Walkinshaw, M.D.
Deposited on : 2011-02-25
Resolution : 2.85 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.35
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.35

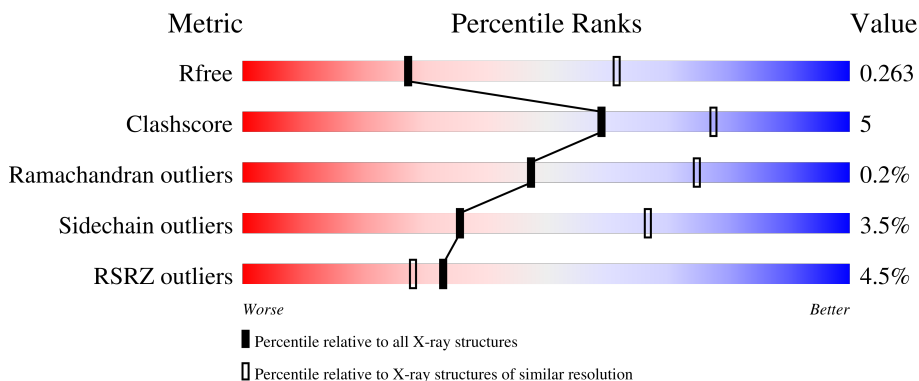
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.85 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.



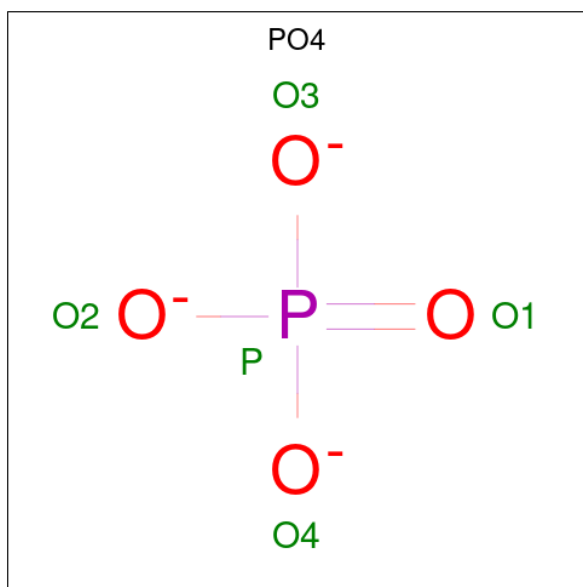
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	3168 (2.90-2.82)
Clashscore	141614	3438 (2.90-2.82)
Ramachandran outliers	138981	3348 (2.90-2.82)
Sidechain outliers	138945	3351 (2.90-2.82)
RSRZ outliers	127900	3103 (2.90-2.82)

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	499	 4% 89% 9% ..
1	D	499	 4% 73% 6% 21%

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

- Molecule 4 is PHOSPHATE ION (three-letter code: PO4) (formula: O₄P).



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

- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	57	Total O 57 57	0	0
5	D	50	Total O 50 50	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	130.05Å 127.50Å 118.17Å 90.00° 116.19° 90.00°	Depositor
Resolution (Å)	86.08 – 2.85 86.08 – 2.85	Depositor EDS
% Data completeness (in resolution range)	100.0 (86.08-2.85) 97.7 (86.08-2.85)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.60 (at 2.86Å)	Xtrriage
Refinement program	REFMAC 5.5.0109	Depositor
R, R_{free}	0.235 , 0.267 0.234 , 0.263	Depositor DCC
R_{free} test set	1979 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	67.2	Xtrriage
Anisotropy	0.123	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 29.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	6952	wwPDB-VP
Average B, all atoms (Å ²)	72.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.25% 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: PO4, K, QV6

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	0.32	0/3815	0.47	0/5165
1	D	0.32	0/3025	0.45	0/4090
All	All	0.32	0/6840	0.46	0/9255

There are no bond length outliers.

There are no bond angle outliers.

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	3760	0	3756	30	0
1	D	2985	0	3017	15	0
2	A	86	0	56	19	0
3	A	2	0	0	0	0
3	D	2	0	0	0	0
4	A	5	0	0	0	0
4	D	5	0	0	0	0
5	A	57	0	0	2	0
5	D	50	0	0	0	0
All	All	6952	0	6829	64	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 (64) 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)
2:A:499:QV6:HAD	2:A:499:QV6:OAJ	1.54	1.03
2:A:499:QV6:HAD	2:A:499:QV6:HOAJ	1.27	0.90
2:A:499:QV6:HAB	2:A:499:QV6:CBF	2.03	0.87
5:A:548:HOH:O	1:D:1:SER:HA	1.74	0.86
2:A:500:QV6:HAD	2:A:500:QV6:OAJ	1.81	0.79
2:A:499:QV6:HAA	2:A:499:QV6:CBE	2.22	0.69
2:A:499:QV6:CAQ	2:A:499:QV6:CAB	2.73	0.66
2:A:499:QV6:CAA	2:A:499:QV6:CAP	2.74	0.65
1:A:142:TYR:HB3	1:A:146:GLY:HA2	1.82	0.62
1:A:24:ILE:HG12	1:A:47:VAL:HB	1.83	0.61
2:A:499:QV6:HAB	2:A:499:QV6:CAQ	2.31	0.61
1:A:142:TYR:HB2	1:A:178:ASN:HB2	1.83	0.60
2:A:499:QV6:HAA	2:A:499:QV6:CAP	2.32	0.60
1:D:6:ASN:HA	1:D:9:LEU:HD12	1.86	0.57
1:A:47:VAL:HG22	1:A:79:ALA:HB3	1.88	0.56
2:A:499:QV6:HAC	2:A:499:QV6:OAL	2.05	0.56
1:A:101:MET:HE1	1:A:121:LYS:HA	1.88	0.56
2:A:499:QV6:CBF	2:A:499:QV6:CAB	2.74	0.55
1:A:101:MET:CE	1:A:121:LYS:HA	2.37	0.54
1:A:263:GLY:HA3	1:A:296:THR:HG21	1.89	0.54
1:A:101:MET:HG3	1:A:148:LEU:HD11	1.91	0.52
1:D:211:SER:HA	1:D:238:LYS:HD3	1.91	0.52
2:A:499:QV6:HAP	2:A:499:QV6:CAY	2.39	0.51
1:A:114:ALA:O	1:A:118:LYS:HD3	2.11	0.51
1:A:17:ASN:H	1:A:17:ASN:HD22	1.57	0.51
1:A:296:THR:HG22	1:A:297:GLN:HG3	1.91	0.51
1:D:17:ASN:HD22	1:D:17:ASN:H	1.59	0.49
1:D:24:ILE:HB	1:D:328:MET:HG3	1.94	0.49
1:A:6:ASN:HA	1:A:9:LEU:HD12	1.95	0.48
1:A:17:ASN:H	1:A:17:ASN:ND2	2.12	0.48
2:A:499:QV6:OAG	2:A:499:QV6:NAX	2.44	0.48
1:A:89:ILE:HG22	1:A:177:VAL:HG13	1.96	0.48
1:A:480:HIS:O	1:A:490:ASN:HA	2.14	0.47
1:D:17:ASN:HD22	1:D:17:ASN:N	2.12	0.47
2:A:499:QV6:CAP	2:A:499:QV6:CAY	2.91	0.47
2:A:500:QV6:HAP	2:A:500:QV6:CAV	2.44	0.47
1:D:366:ILE:HG21	1:D:411:LYS:HD3	1.96	0.47
1:A:376:ALA:O	1:A:380:VAL:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:24:ILE:HG12	1:D:47:VAL:HB	1.97	0.46
1:D:79:ALA:HB2	1:D:429:ARG:O	2.16	0.45
1:A:142:TYR:CD2	1:A:149:ILE:HG12	2.51	0.45
1:D:237:CYS:SG	1:D:255:SER:HB3	2.56	0.45
1:A:481:ALA:HB1	1:A:488:TYR:CZ	2.51	0.45
1:D:379:ALA:O	1:D:383:SER:HB2	2.17	0.45
1:A:263:GLY:CA	1:A:296:THR:HG21	2.48	0.44
2:A:500:QV6:OAI	2:A:500:QV6:HAC	2.17	0.44
2:A:500:QV6:OAG	2:A:500:QV6:NAX	2.45	0.44
1:A:85:LYS:HD3	1:A:192:LYS:HD3	2.00	0.43
1:A:117:ASP:OD1	1:A:118:LYS:HD2	2.17	0.43
1:D:47:VAL:HG22	1:D:79:ALA:HB3	2.00	0.43
1:A:95:VAL:HA	1:A:96:GLY:HA2	1.60	0.43
1:A:443:ASP:O	1:A:447:LEU:HB2	2.19	0.43
1:A:141:ILE:O	1:A:150:LEU:HD23	2.18	0.43
2:A:499:QV6:OAF	2:A:499:QV6:NAW	2.38	0.43
1:A:194:ARG:HD3	5:A:552:HOH:O	2.19	0.43
1:D:242:HIS:HD2	1:D:268:GLU:OE1	2.02	0.43
1:A:296:THR:HG22	1:A:297:GLN:N	2.34	0.42
2:A:499:QV6:CAQ	2:A:499:QV6:CAZ	2.92	0.42
1:D:385:VAL:HG21	1:D:412:TYR:HB2	2.02	0.42
1:A:481:ALA:HB1	1:A:488:TYR:OH	2.20	0.41
1:A:263:GLY:H	1:A:296:THR:HG21	1.86	0.41
1:D:325:ASP:HA	1:D:435:GLN:HB3	2.00	0.41
1:A:172:SER:H	1:A:175:ARG:HD3	1.85	0.41
1:A:263:GLY:N	1:A:296:THR:HG21	2.36	0.41

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	489/499 (98%)	474 (97%)	14 (3%)	1 (0%)	47	75
1	D	388/499 (78%)	377 (97%)	10 (3%)	1 (0%)	41	68
All	All	877/998 (88%)	851 (97%)	24 (3%)	2 (0%)	47	75

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	296	THR
1	D	296	THR

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	412/417 (99%)	396 (96%)	16 (4%)	32	63
1	D	326/417 (78%)	316 (97%)	10 (3%)	40	71
All	All	738/834 (88%)	712 (96%)	26 (4%)	36	67

All (26) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	17	ASN
1	A	40	LEU
1	A	118	LYS
1	A	148	LEU
1	A	160	THR
1	A	175	ARG
1	A	177	VAL
1	A	198	GLN
1	A	246	GLN
1	A	262	ARG
1	A	372	ILE
1	A	390	GLU
1	A	426	GLN
1	A	435	GLN

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Mol	Chain	Res	Type
1	A	479	ILE
1	A	482	ASP
1	D	17	ASN
1	D	40	LEU
1	D	246	GLN
1	D	262	ARG
1	D	264	ASP
1	D	390	GLU
1	D	426	GLN
1	D	435	GLN
1	D	479	ILE
1	D	498	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	17	ASN
1	A	153	GLN
1	A	198	GLN
1	A	242	HIS
1	A	247	ASN
1	A	286	ASN
1	A	305	ASN
1	A	435	GLN
1	D	17	ASN
1	D	242	HIS
1	D	286	ASN
1	D	305	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 monosaccharides in this entry.

5.6 Ligand geometry

Of 8 ligands modelled in this entry, 4 are monoatomic - leaving 4 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	PO4	A	503	-	4,4,4	0.93	0	6,6,6	0.44	0
4	PO4	D	501	-	4,4,4	0.89	0	6,6,6	0.45	0
2	QV6	A	500	-	45,47,47	1.33	4 (8%)	68,74,74	1.11	4 (5%)
2	QV6	A	499	-	45,47,47	1.48	8 (17%)	68,74,74	1.16	4 (5%)

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
2	QV6	A	500	-	-	5/20/36/36	0/5/5/5
2	QV6	A	499	-	-	9/20/36/36	0/5/5/5

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	499	QV6	CBL-CBJ	-4.20	1.39	1.48
2	A	499	QV6	CBM-CBK	-4.14	1.39	1.48
2	A	500	QV6	CBM-CBK	-3.90	1.40	1.48
2	A	500	QV6	CBL-CBJ	-3.80	1.40	1.48
2	A	499	QV6	CBO-CBK	-3.41	1.39	1.47
2	A	499	QV6	CBN-CBJ	-3.24	1.40	1.47
2	A	500	QV6	CBO-CBK	-3.04	1.40	1.47
2	A	500	QV6	CBN-CBJ	-2.77	1.41	1.47
2	A	499	QV6	CBE-NAW	-2.32	1.33	1.39
2	A	499	QV6	CBD-NAW	-2.30	1.33	1.39
2	A	499	QV6	CBG-NAX	-2.16	1.34	1.40
2	A	499	QV6	CBF-NAX	-2.15	1.33	1.39

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	499	QV6	CAT-CBA-CBH	4.09	119.81	116.94
2	A	500	QV6	CAT-CBA-CBH	3.88	119.66	116.94
2	A	499	QV6	CAC-CBA-CBH	-3.39	120.84	124.16
2	A	499	QV6	CAD-CBB-CBI	-3.37	120.25	125.16
2	A	499	QV6	OAL-SBP-CBH	2.15	110.14	106.51
2	A	500	QV6	OAI-SBP-CBH	2.09	110.05	106.51
2	A	500	QV6	CAC-CBA-CBH	-2.04	122.16	124.16
2	A	500	QV6	CAE-CBC-CBG	-2.02	117.59	120.64

There are no chirality outliers.

All (14) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	499	QV6	CAY-CBD-NAW-CBE
2	A	499	QV6	CAV-CBH-SBP-OAL
2	A	499	QV6	CAV-CBD-NAW-CBE
2	A	499	QV6	CAV-CBH-SBP-OAH
2	A	499	QV6	CBA-CBH-SBP-OAH
2	A	499	QV6	CBB-CBI-SBQ-OAJ
2	A	499	QV6	CBB-CBI-SBQ-OAK
2	A	499	QV6	CBC-CBI-SBQ-OAK
2	A	500	QV6	CBB-CBI-SBQ-OAJ
2	A	500	QV6	CBB-CBI-SBQ-OAK
2	A	500	QV6	CAY-CBD-NAW-CBE
2	A	500	QV6	CBC-CBI-SBQ-OAK
2	A	500	QV6	CAV-CBD-NAW-CBE
2	A	499	QV6	CAZ-CBG-NAX-CBF

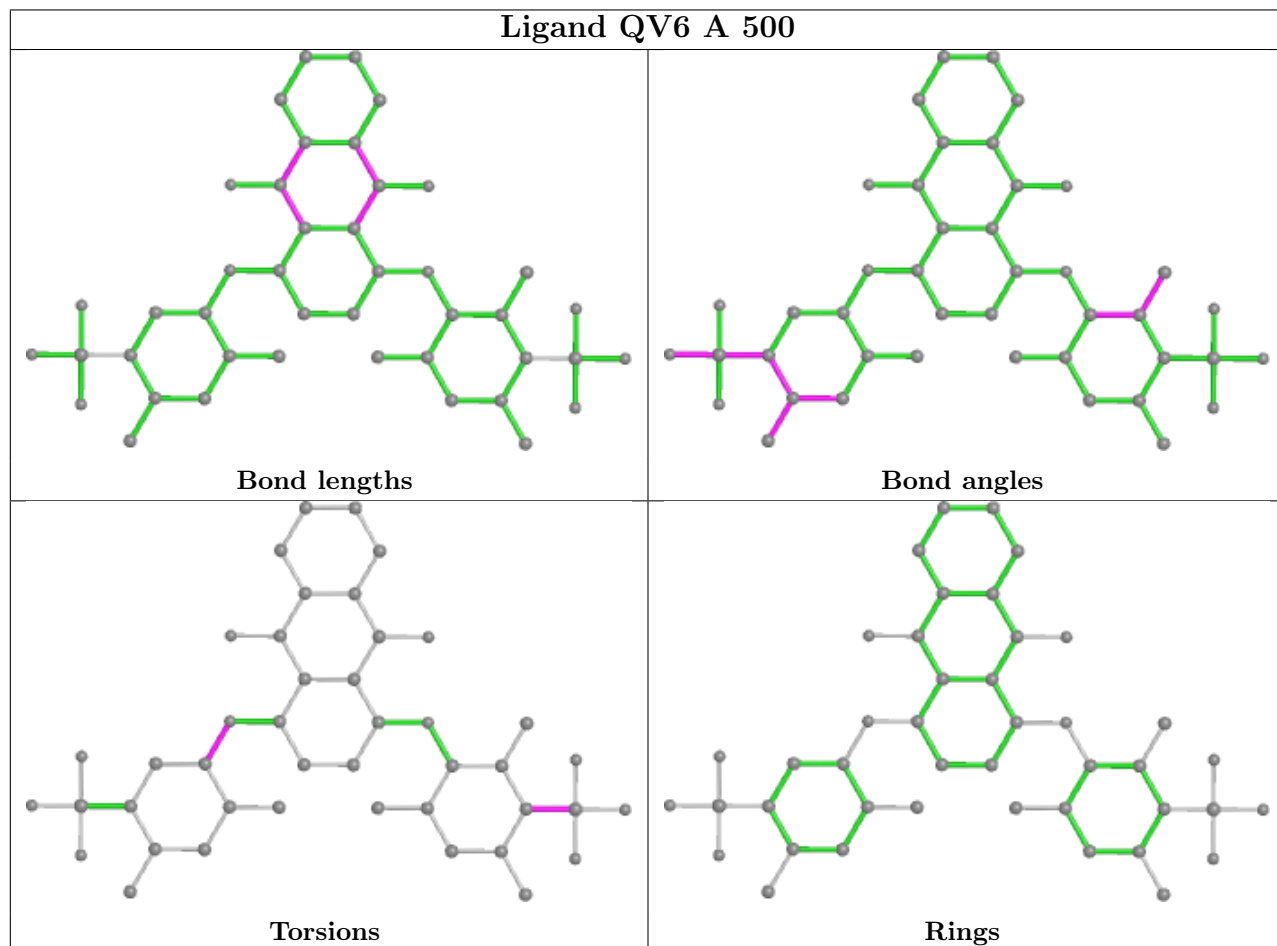
There are no ring outliers.

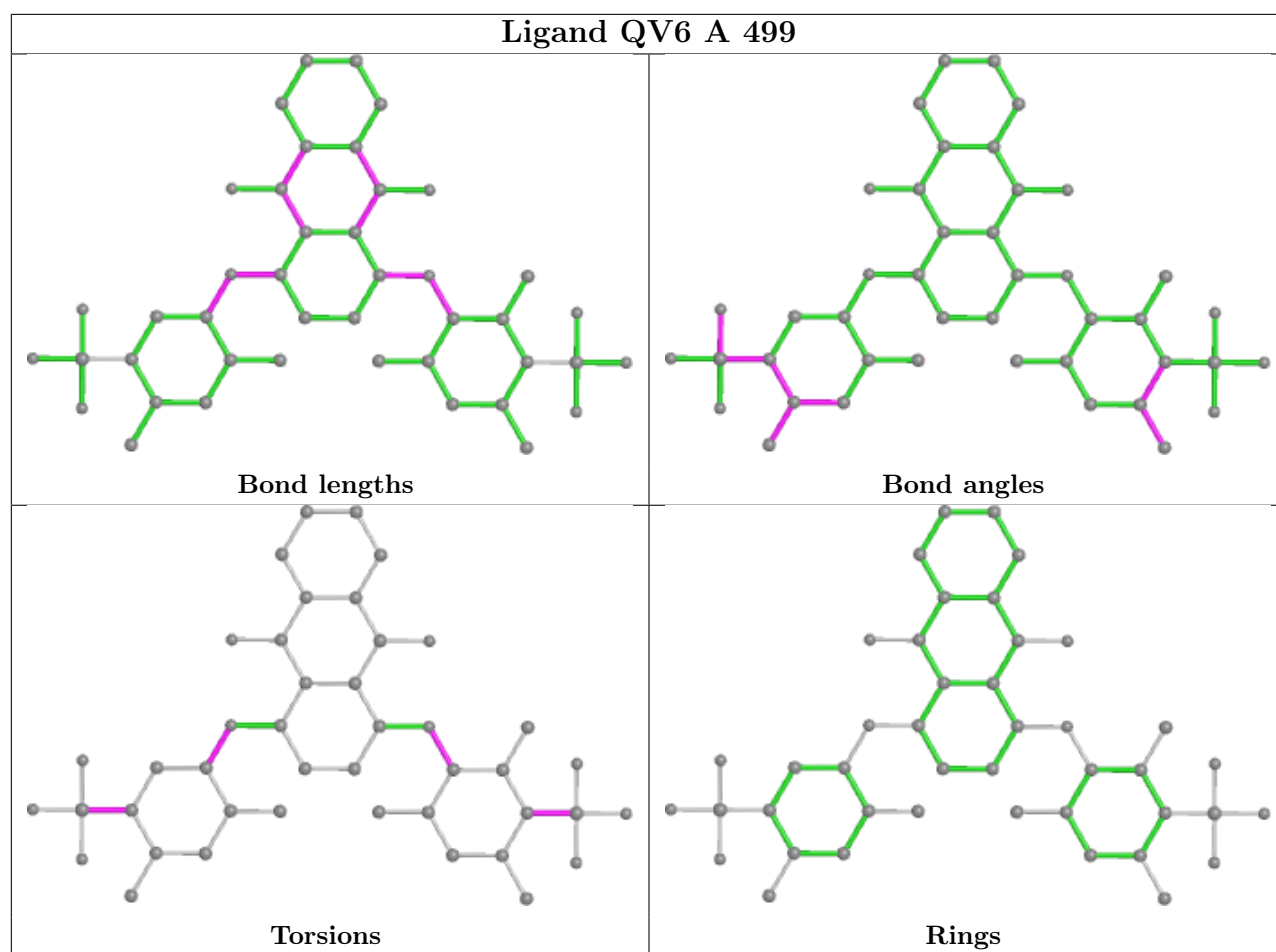
2 monomers are involved in 19 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	500	QV6	4	0
2	A	499	QV6	15	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	493/499 (98%)	0.63	18 (3%) 41 36	56, 70, 92, 105	0
1	D	394/499 (78%)	0.65	22 (5%) 24 20	58, 71, 94, 98	0
All	All	887/998 (88%)	0.64	40 (4%) 33 28	56, 71, 94, 105	0

All (40) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	491	GLN	3.3
1	D	212	PHE	3.2
1	D	419	VAL	3.0
1	D	457	VAL	2.8
1	A	495	LEU	2.8
1	A	165	VAL	2.7
1	A	67	VAL	2.7
1	D	479	ILE	2.7
1	D	274	VAL	2.5
1	D	409	VAL	2.5
1	D	461	VAL	2.5
1	A	296	THR	2.5
1	D	489	ALA	2.4
1	A	260	VAL	2.4
1	D	381	CYS	2.4
1	A	3	LEU	2.4
1	D	1	SER	2.3
1	A	397	VAL	2.3
1	D	463	PHE	2.3
1	A	334	ALA	2.2
1	D	67	VAL	2.2
1	D	408	LEU	2.2
1	A	171	ILE	2.2
1	D	440	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
1	D	476	CYS	2.2
1	A	419	VAL	2.2
1	D	399	LEU	2.1
1	A	24	ILE	2.1
1	A	395	ALA	2.1
1	A	293	ILE	2.1
1	D	398	VAL	2.1
1	A	208	ILE	2.1
1	D	494	ILE	2.1
1	A	396	MET	2.1
1	A	48	ALA	2.0
1	D	27	ILE	2.0
1	D	493	ARG	2.0
1	A	25	CYS	2.0
1	D	418	ILE	2.0
1	A	100	VAL	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 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, 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.

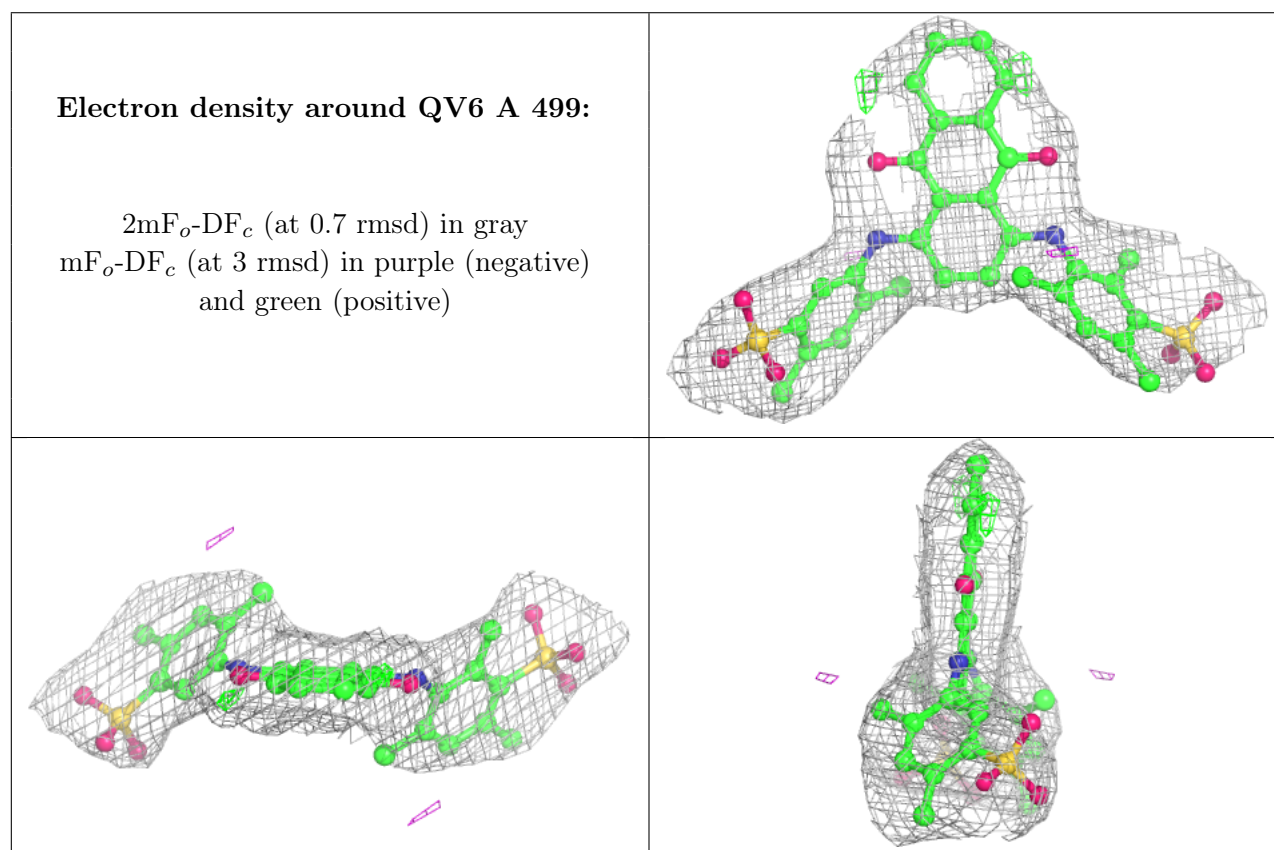
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	K	A	501	1/1	0.66	0.15	100,100,100,100	0
3	K	A	502	1/1	0.81	0.12	81,81,81,81	0
3	K	D	499	1/1	0.82	0.16	98,98,98,98	0
4	PO4	A	503	5/5	0.91	0.17	113,113,113,114	0
4	PO4	D	501	5/5	0.91	0.16	121,121,121,121	0
3	K	D	500	1/1	0.93	0.09	83,83,83,83	0
2	QV6	A	499	43/43	0.94	0.20	71,71,73,73	43

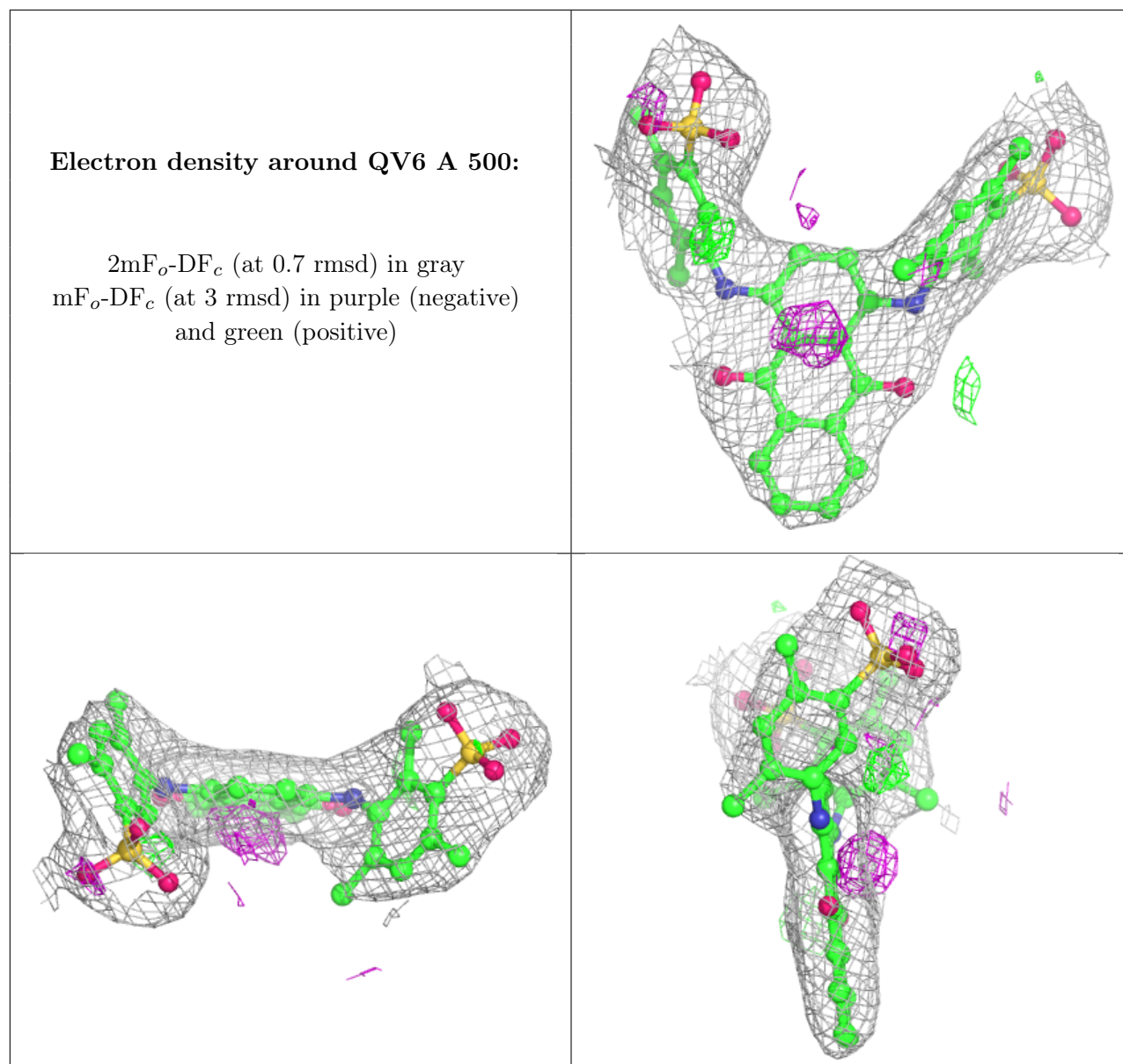
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	QV6	A	500	43/43	0.96	0.26	60,69,72,73	0

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.