



Full wwPDB X-ray Structure Validation Report ⓘ

May 14, 2020 – 12:48 pm BST

PDB ID : 6PNX
Title : Crystal Structure of an Asymmetric Dimer of FGF Receptor 3 Kinases Trapped in A-loop Tyrosine Transphosphorylation Reaction
Authors : Mohammadi, M.
Deposited on : 2019-07-03
Resolution : 2.20 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 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 : 2.11
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) : 2.11

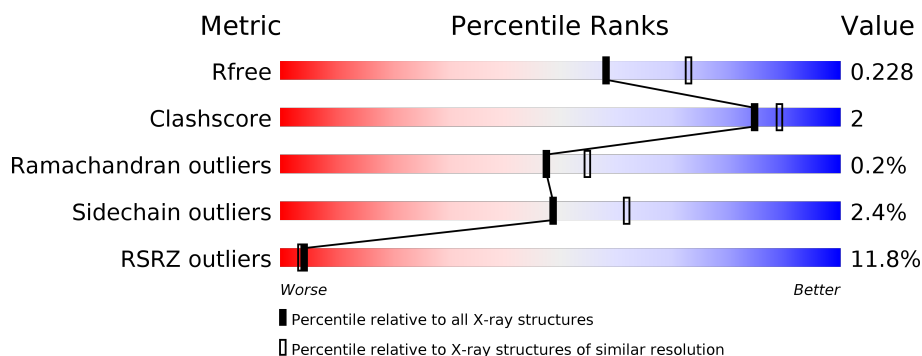
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (2.20-2.20)

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 on 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	324	<div> <div>10%</div> <div> <div></div> <div>85%</div> <div>5%</div> <div>10%</div> </div> </div>
1	B	324	<div> <div>11%</div> <div> <div></div> <div>81%</div> <div>9%</div> <div>9%</div> </div> </div>

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4952 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 Fibroblast growth factor receptor 3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	291	Total	C	N	O	S	0	1	0
			2306	1470	395	423	18			
1	B	294	Total	C	N	O	S	0	1	0
			2325	1481	398	428	18			

There are 36 discrepancies between the modelled and reference sequences:

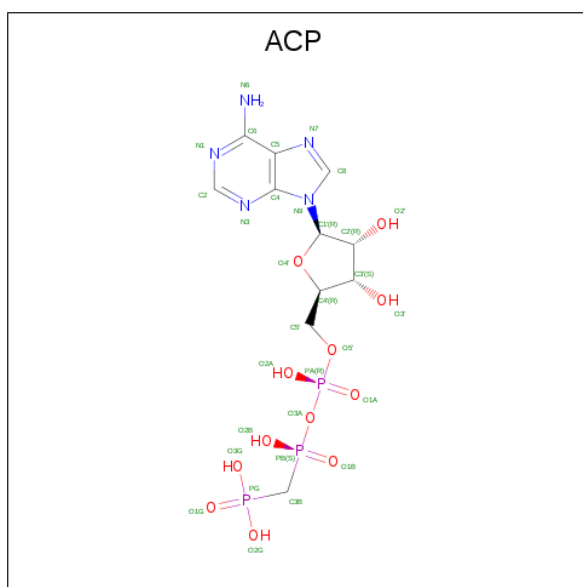
Chain	Residue	Modelled	Actual	Comment	Reference
A	436	MET	-	expression tag	UNP P22607
A	437	GLY	-	expression tag	UNP P22607
A	438	SER	-	expression tag	UNP P22607
A	439	SER	-	expression tag	UNP P22607
A	440	HIS	-	expression tag	UNP P22607
A	441	HIS	-	expression tag	UNP P22607
A	442	HIS	-	expression tag	UNP P22607
A	443	HIS	-	expression tag	UNP P22607
A	444	HIS	-	expression tag	UNP P22607
A	445	HIS	-	expression tag	UNP P22607
A	446	SER	-	expression tag	UNP P22607
A	447	GLN	-	expression tag	UNP P22607
A	448	ASP	-	expression tag	UNP P22607
A	449	PRO	-	expression tag	UNP P22607
A	450	THR	-	expression tag	UNP P22607
A	482	ALA	CYS	engineered mutation	UNP P22607
A	582	SER	CYS	engineered mutation	UNP P22607
A	669	GLU	ARG	engineered mutation	UNP P22607
B	436	MET	-	expression tag	UNP P22607
B	437	GLY	-	expression tag	UNP P22607
B	438	SER	-	expression tag	UNP P22607
B	439	SER	-	expression tag	UNP P22607
B	440	HIS	-	expression tag	UNP P22607
B	441	HIS	-	expression tag	UNP P22607
B	442	HIS	-	expression tag	UNP P22607

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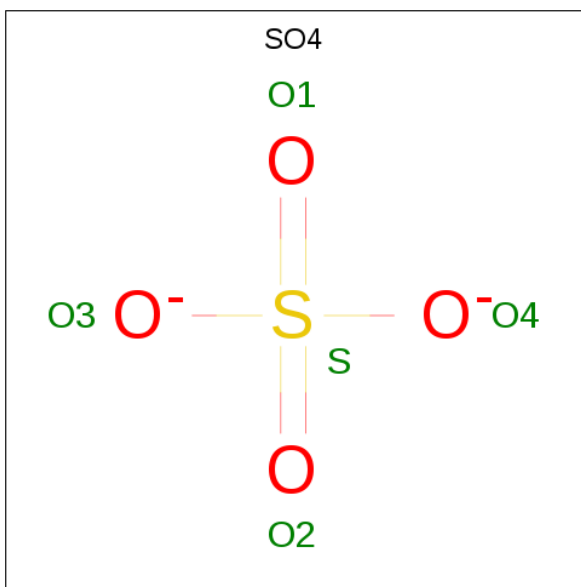
Chain	Residue	Modelled	Actual	Comment	Reference
B	443	HIS	-	expression tag	UNP P22607
B	444	HIS	-	expression tag	UNP P22607
B	445	HIS	-	expression tag	UNP P22607
B	446	SER	-	expression tag	UNP P22607
B	447	GLN	-	expression tag	UNP P22607
B	448	ASP	-	expression tag	UNP P22607
B	449	PRO	-	expression tag	UNP P22607
B	450	THR	-	expression tag	UNP P22607
B	482	ALA	CYS	engineered mutation	UNP P22607
B	582	SER	CYS	engineered mutation	UNP P22607
B	669	GLU	ARG	engineered mutation	UNP P22607

- Molecule 2 is PHOSPHOMETHYLPHOSPHONIC ACID ADENYLATE ESTER (three-letter code: ACP) (formula: $C_{11}H_{18}N_5O_{12}P_3$) (labeled as "Ligand of Interest" by author).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	P	0	0
			31	11	5	12	3		
2	B	1	Total	C	N	O	P	0	0
			31	11	5	12	3		

- Molecule 3 is SULFATE ION (three-letter code: SO4) (formula: O_4S) (labeled as "Ligand of Interest" by author).



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

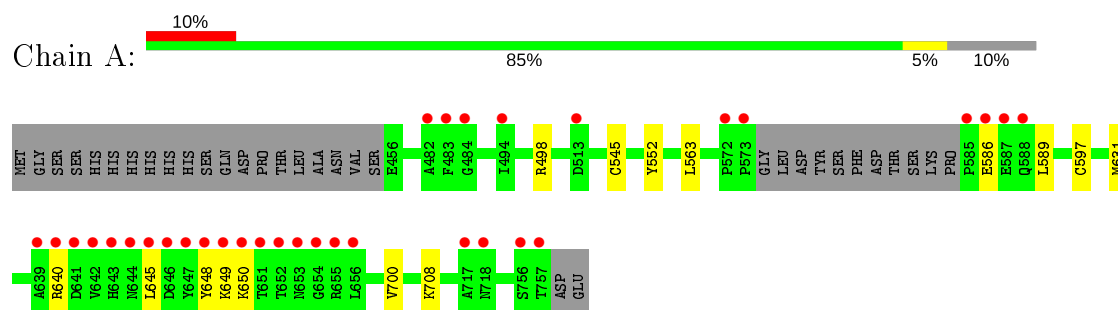
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	143	Total	O	0	0
			143	143		
4	B	106	Total	O	0	0
			106	106		

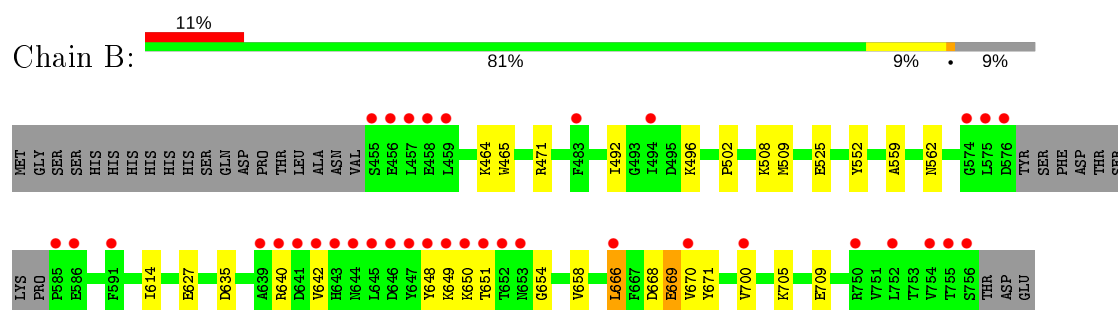
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: Fibroblast growth factor receptor 3



- Molecule 1: Fibroblast growth factor receptor 3



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	54.69Å 93.25Å 75.49Å 90.00° 103.06° 90.00°	Depositor
Resolution (Å)	39.38 – 2.20 48.68 – 2.20	Depositor EDS
% Data completeness (in resolution range)	99.6 (39.38-2.20) 90.7 (48.68-2.20)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.80 (at 2.20Å)	Xtriage
Refinement program	PHENIX 1.14 _3260	Depositor
R, R_{free}	0.193 , 0.230 0.193 , 0.228	Depositor DCC
R_{free} test set	1998 reflections (5.33%)	wwPDB-VP
Wilson B-factor (Å ²)	41.3	Xtriage
Anisotropy	0.244	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 60.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4952	wwPDB-VP
Average B, all atoms (Å ²)	74.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.66% 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: ACP, SO4

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	0.23	0/2358	0.41	0/3189
1	B	0.23	0/2377	0.41	0/3214
All	All	0.23	0/4735	0.41	0/6403

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

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	2306	0	2325	6	0
1	B	2325	0	2341	17	0
2	A	31	0	14	0	0
2	B	31	0	14	1	0
3	A	5	0	0	0	0
3	B	5	0	0	0	0
4	A	143	0	0	2	0
4	B	106	0	0	2	0
All	All	4952	0	4694	22	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 2.

All (22) 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:B:658:VAL:HG23	1:B:666:LEU:HD11	1.75	0.67
1:A:563:LEU:HD13	1:A:631:MET:HE1	1.81	0.62
1:A:649:LYS:HG3	1:B:654:GLY:HA3	1.86	0.56
1:B:562:ASN:ND2	4:B:908:HOH:O	2.38	0.55
1:B:508:LYS:NZ	1:B:525:GLU:OE2	2.38	0.55
1:B:650:LYS:HB3	1:B:669:GLU:HG2	1.88	0.54
1:B:635:ASP:OD2	2:B:801:ACP:O3G	2.27	0.52
1:B:492:ILE:HG22	1:B:502:PRO:HB3	1.94	0.49
1:B:705:LYS:NZ	1:B:709:GLU:OE2	2.44	0.46
1:B:650:LYS:HG2	1:B:651:THR:H	1.80	0.46
1:A:708:LYS:NZ	4:A:907:HOH:O	2.37	0.45
1:B:658:VAL:HG11	1:B:700:VAL:HG13	1.97	0.45
1:B:614:ILE:O	1:B:640:ARG:HB3	2.17	0.45
1:A:545:CYS:HB2	1:A:552:TYR:HB2	1.99	0.45
1:A:645:LEU:H	1:A:645:LEU:HD23	1.82	0.45
1:B:559:ALA:HB3	1:B:627:GLU:HG2	1.99	0.45
1:B:642:VAL:HG11	1:B:648:TYR:HB3	1.99	0.45
1:B:650:LYS:HD2	1:B:671:TYR:HE2	1.82	0.44
1:B:471:ARG:NH1	4:B:910:HOH:O	2.41	0.44
1:A:640:ARG:NH1	4:A:920:HOH:O	2.52	0.43
1:B:464:LYS:HG3	1:B:465:TRP:CD1	2.56	0.40
1:B:509:MET:HE2	1:B:552:TYR:CE1	2.56	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	288/324 (89%)	276 (96%)	11 (4%)	1 (0%)	41	46
1	B	291/324 (90%)	272 (94%)	19 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	579/648 (89%)	548 (95%)	30 (5%)	1 (0%)	47 55

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	650	LYS

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	249/278 (90%)	242 (97%)	7 (3%)	43 56
1	B	251/278 (90%)	245 (98%)	6 (2%)	49 62
All	All	500/556 (90%)	487 (97%)	13 (3%)	49 58

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	498	ARG
1	A	586	GLU
1	A	589	LEU
1	A	597[A]	CYS
1	A	597[B]	CYS
1	A	648	TYR
1	A	700	VAL
1	B	496	LYS
1	B	649	LYS
1	B	666	LEU
1	B	668	ASP
1	B	669	GLU
1	B	670	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

4 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$
2	ACP	A	801	-	27,33,33	2.07	6 (22%)	32,52,52	1.72	5 (15%)
3	SO4	B	802	-	4,4,4	0.14	0	6,6,6	0.05	0
2	ACP	B	801	-	27,33,33	2.10	6 (22%)	32,52,52	1.63	5 (15%)
3	SO4	A	802	-	4,4,4	0.14	0	6,6,6	0.05	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
2	ACP	A	801	-	-	0/15/38/38	0/3/3/3
2	ACP	B	801	-	-	2/15/38/38	0/3/3/3

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	801	ACP	O4'-C1'	5.71	1.49	1.41
2	A	801	ACP	O4'-C1'	5.60	1.48	1.41
2	B	801	ACP	C2'-C1'	-5.54	1.45	1.53
2	A	801	ACP	C2'-C1'	-5.49	1.45	1.53
2	B	801	ACP	C2'-C3'	-3.84	1.42	1.53
2	A	801	ACP	C2'-C3'	-3.82	1.42	1.53
2	B	801	ACP	C6-N6	3.21	1.45	1.34
2	A	801	ACP	C6-N6	3.18	1.45	1.34
2	B	801	ACP	C2-N3	2.94	1.36	1.32
2	A	801	ACP	C2-N3	2.88	1.36	1.32
2	B	801	ACP	C3'-C4'	-2.82	1.45	1.53
2	A	801	ACP	C3'-C4'	-2.80	1.45	1.53

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	801	ACP	N3-C2-N1	-5.49	120.10	128.68
2	A	801	ACP	N3-C2-N1	-5.39	120.26	128.68
2	A	801	ACP	C3'-C2'-C1'	4.72	108.08	100.98
2	B	801	ACP	C3'-C2'-C1'	4.13	107.20	100.98
2	A	801	ACP	PA-O3A-PB	-3.99	119.91	132.56
2	B	801	ACP	PA-O3A-PB	-3.48	121.51	132.56
2	A	801	ACP	C2'-C3'-C4'	2.56	107.61	102.64
2	B	801	ACP	C2'-C3'-C4'	2.33	107.18	102.64
2	A	801	ACP	C4-C5-N7	-2.15	107.16	109.40
2	B	801	ACP	C4-C5-N7	-2.14	107.17	109.40

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	801	ACP	C4'-C5'-O5'-PA
2	B	801	ACP	O4'-C4'-C5'-O5'

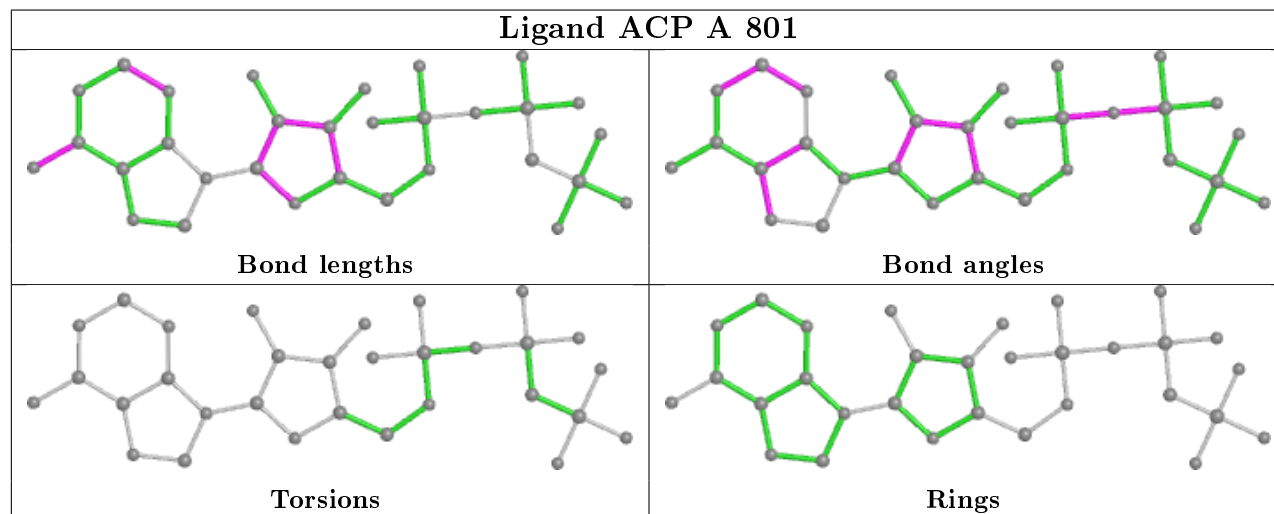
There are no ring outliers.

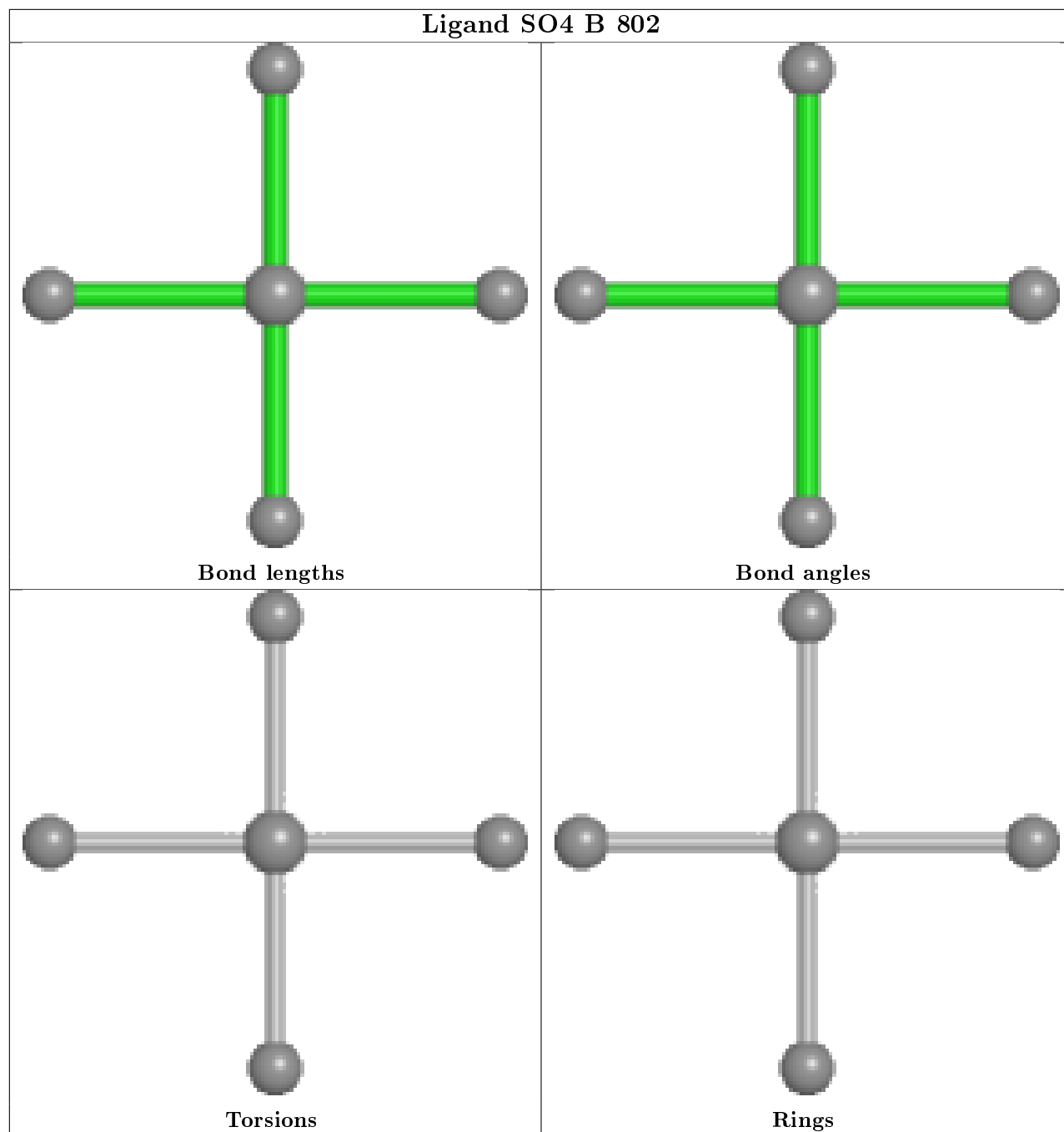
1 monomer is involved in 1 short contact:

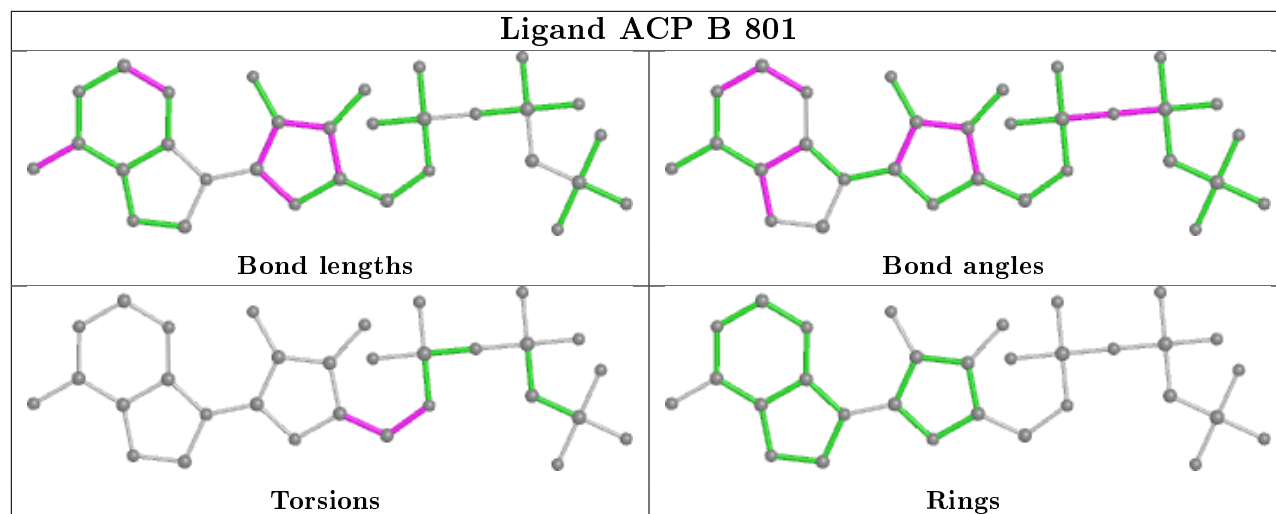
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	801	ACP	1	0

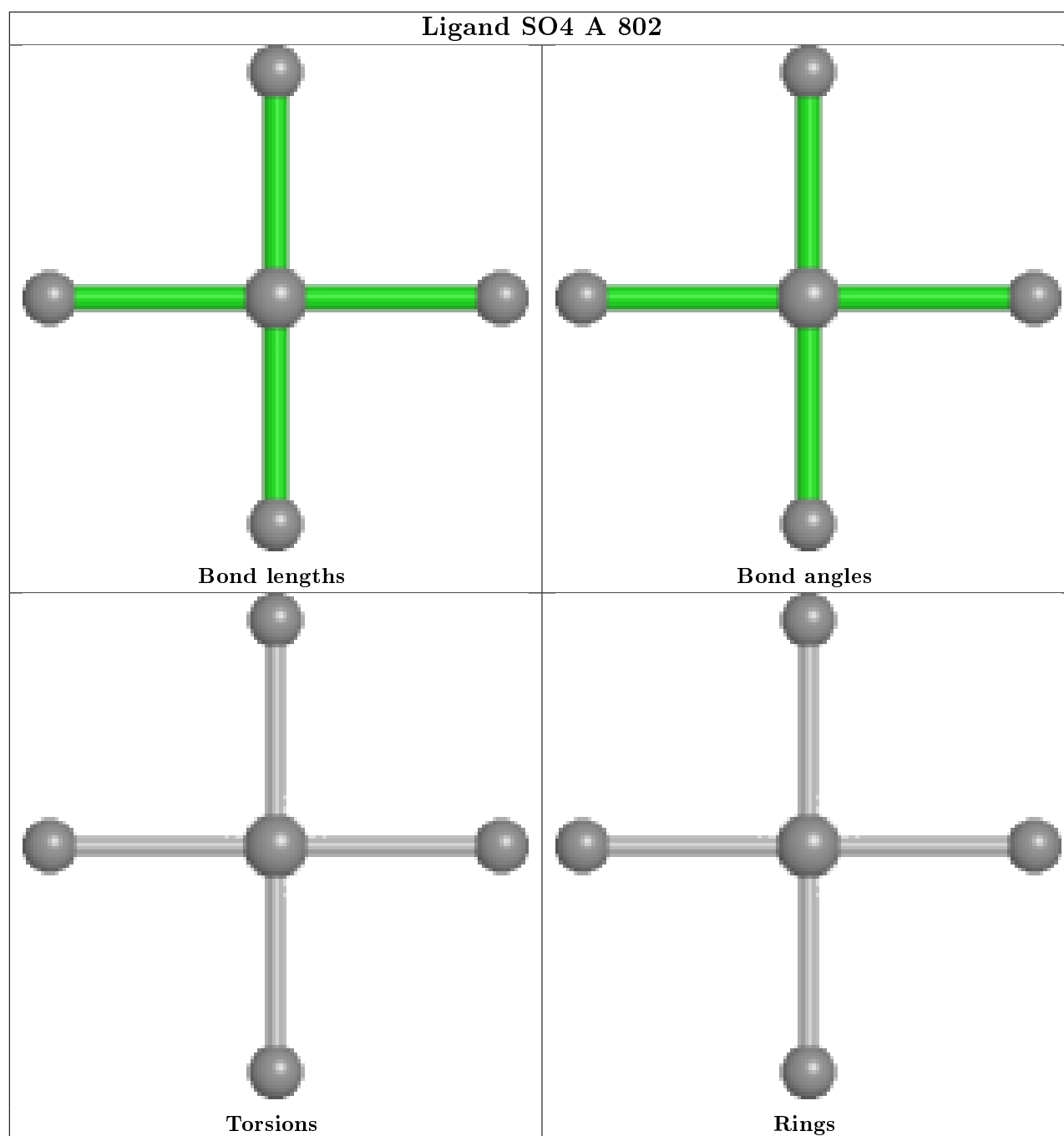
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In

addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less 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	291/324 (89%)	0.86	33 (11%) 5 4	33, 61, 150, 180	0
1	B	294/324 (90%)	1.20	36 (12%) 4 3	39, 62, 175, 236	0
All	All	585/648 (90%)	1.03	69 (11%) 4 4	33, 61, 159, 236	0

All (69) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	647	TYR	24.6
1	B	648	TYR	22.9
1	B	651	THR	21.4
1	B	645	LEU	15.1
1	B	652	THR	13.4
1	B	646	ASP	13.1
1	B	644	ASN	12.4
1	B	643	HIS	9.6
1	B	457	LEU	9.4
1	A	642	VAL	8.9
1	A	651	THR	8.8
1	B	649	LYS	8.4
1	B	640	ARG	8.4
1	A	654	GLY	8.2
1	A	644	ASN	8.1
1	B	641	ASP	8.1
1	A	483	PHE	8.1
1	B	642	VAL	7.6
1	A	641	ASP	7.4
1	B	455	SER	7.3
1	A	647	TYR	7.2
1	A	653	ASN	6.9
1	A	585	PRO	6.8
1	B	456	GLU	6.8

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Mol	Chain	Res	Type	RSRZ
1	B	575	LEU	6.7
1	B	650	LYS	6.6
1	A	652	THR	6.6
1	A	645	LEU	6.3
1	B	576	ASP	6.3
1	A	482	ALA	6.1
1	A	639	ALA	5.4
1	B	755	THR	5.3
1	B	585	PRO	5.0
1	B	574	GLY	4.9
1	A	643	HIS	4.8
1	B	756	SER	4.7
1	B	483	PHE	4.6
1	A	648	TYR	4.6
1	A	573	PRO	4.6
1	B	639	ALA	4.3
1	A	484	GLY	4.3
1	A	757	THR	3.4
1	B	752	LEU	3.3
1	B	653	ASN	3.1
1	A	756	SER	3.1
1	A	655	ARG	3.1
1	B	494	ILE	2.8
1	A	640	ARG	2.8
1	A	572	PRO	2.7
1	B	750	ARG	2.6
1	A	494	ILE	2.6
1	A	717	ALA	2.5
1	B	591	PHE	2.5
1	A	718	ASN	2.5
1	B	459	LEU	2.5
1	A	656	LEU	2.4
1	B	458	GLU	2.4
1	B	754	VAL	2.4
1	A	513	ASP	2.4
1	A	586	GLU	2.3
1	B	670	VAL	2.3
1	A	646	ASP	2.3
1	A	650	LYS	2.3
1	A	588	GLN	2.2
1	B	700	VAL	2.2
1	A	587	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	666	LEU	2.2
1	B	586	GLU	2.2
1	A	649	LYS	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 carbohydrates in this entry.

6.4 Ligands [i](#)

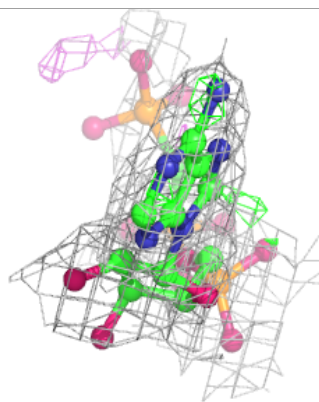
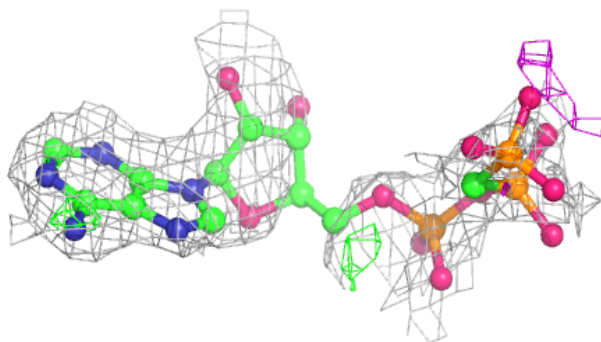
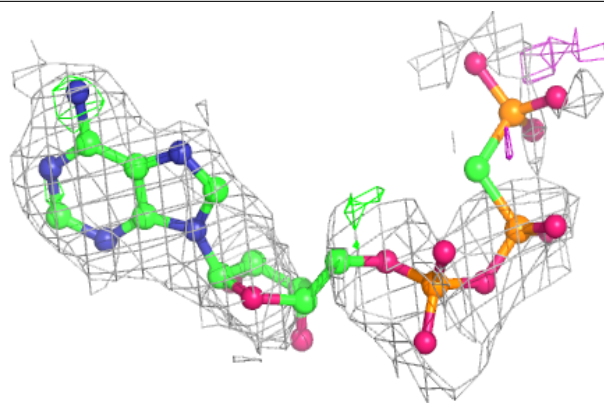
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	ACP	B	801	31/31	0.69	0.26	93,138,196,197	0
3	SO4	A	802	5/5	0.72	0.28	143,144,145,146	0
2	ACP	A	801	31/31	0.78	0.22	72,117,180,180	0
3	SO4	B	802	5/5	0.85	0.35	140,141,141,141	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.

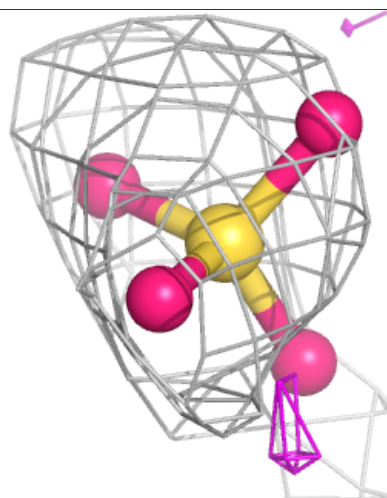
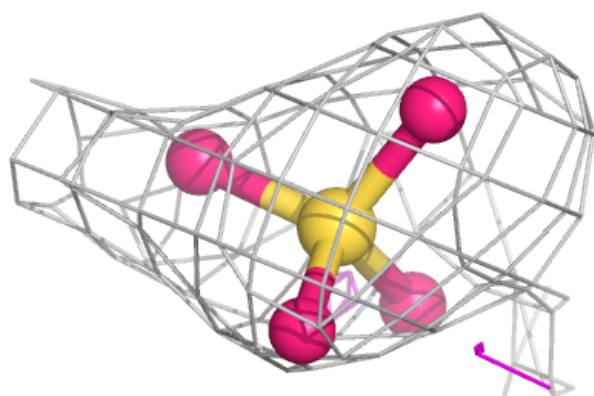
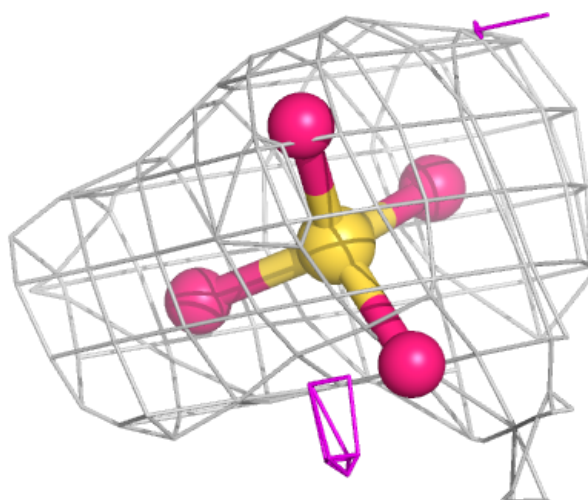
Electron density around ACP B 801:

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



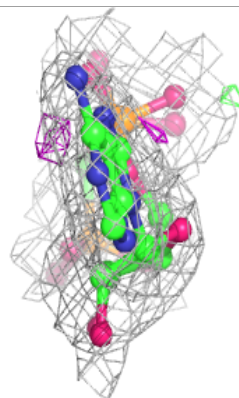
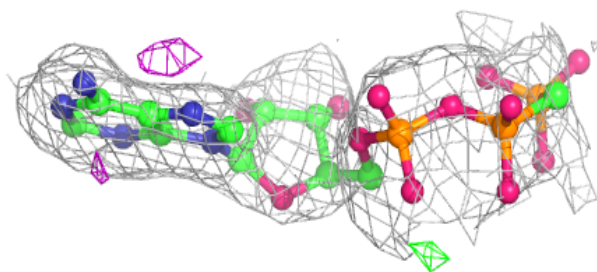
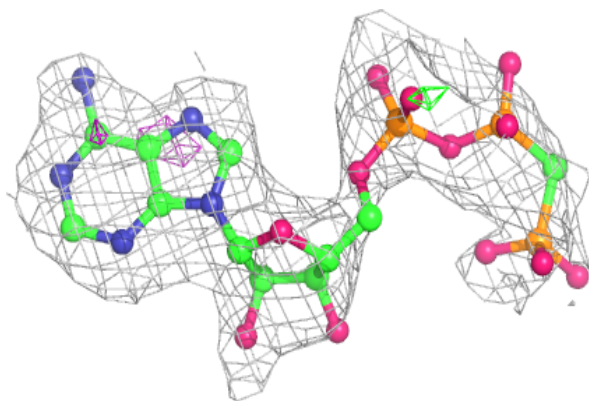
Electron density around SO4 A 802:

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



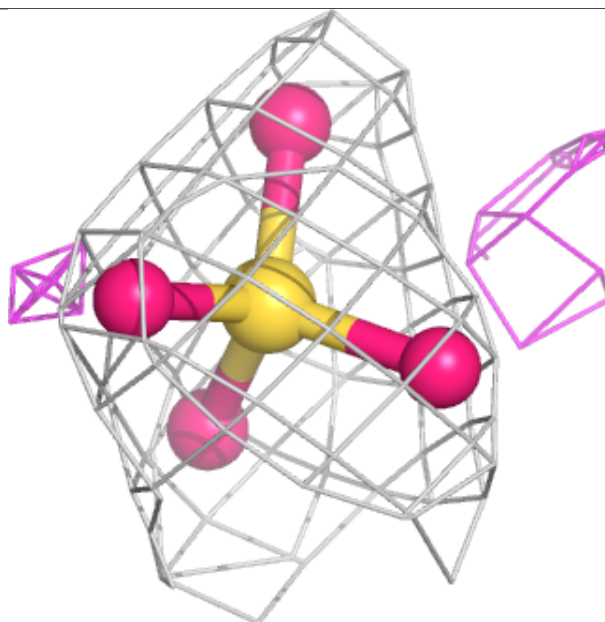
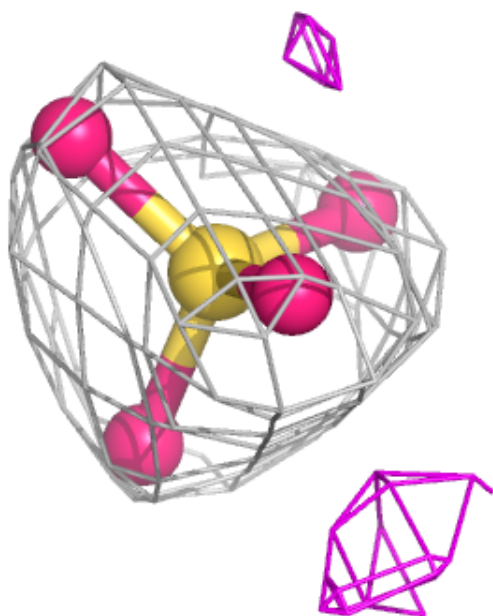
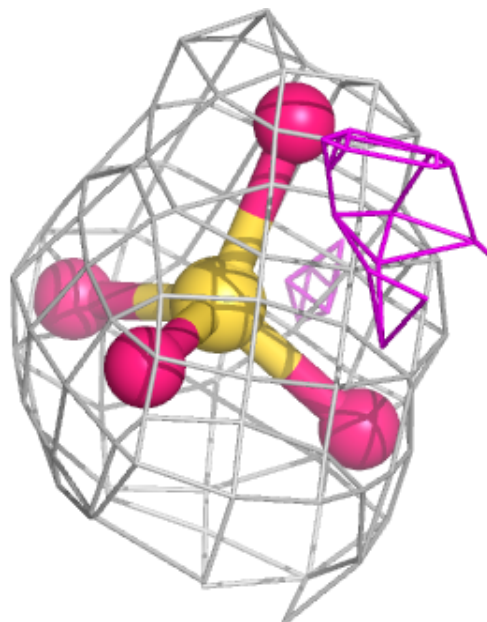
Electron density around ACP A 801:

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



Electron density around SO4 B 802:

$2mF_o-DF_c$ (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.