



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 06:12 PM UTC

PDB ID : 8Z2J / pdb_00008z2j
Title : Substrate analog a012 bound form of PET-degrading cutinase mutant Cut190**SS_S176A
Authors : Numoto, N.; Kondo, F.; Bekker, G.J.; Liao, Z.; Yamashita, M.; Iida, A.; Ito, N.; Kamiya, N.; Oda, M.
Deposited on : 2024-04-12
Resolution : 1.89 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	:	4-5-2 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

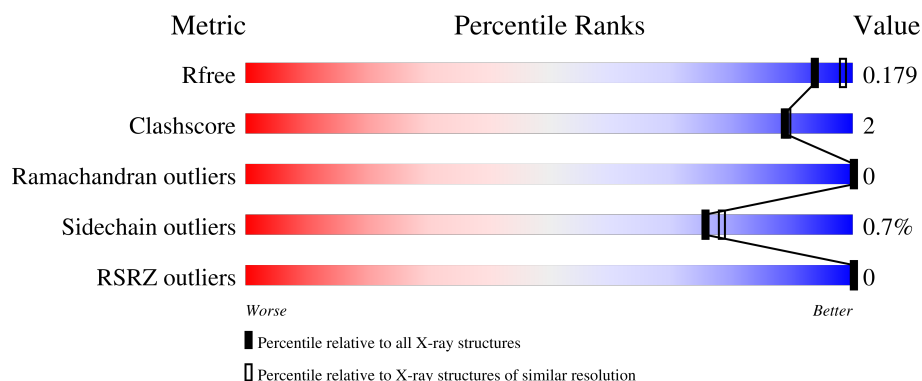
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

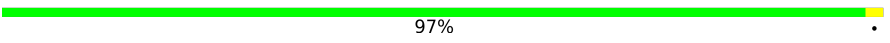
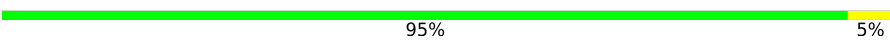
The reported resolution of this entry is 1.89 Å.

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	7789 (1.90-1.90)
Clashscore	190562	8410 (1.90-1.90)
Ramachandran outliers	187476	8333 (1.90-1.90)
Sidechain outliers	187428	8333 (1.90-1.90)
RSRZ outliers	180081	7790 (1.90-1.90)

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	260	 97%
1	B	260	 95% 5%

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 4706 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.

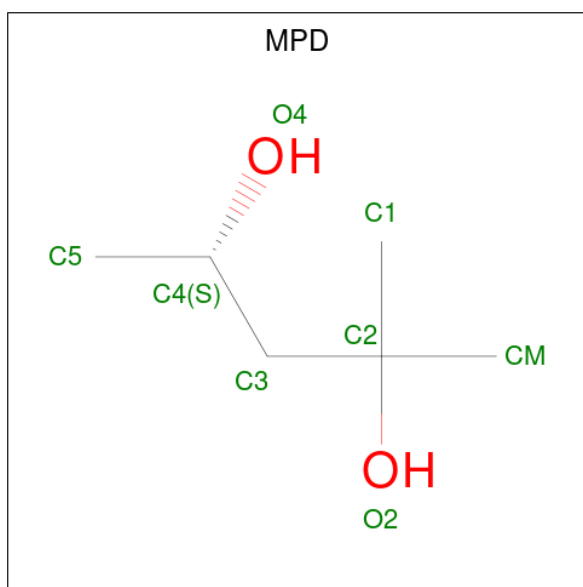
- Molecule 1 is a protein called Alpha/beta hydrolase family protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	259	Total	C	N	O	S	0	0	0
			2006	1271	346	380	9			
1	B	259	Total	C	N	O	S	0	1	0
			2012	1275	346	382	9			

There are 20 discrepancies between the modelled and reference sequences:

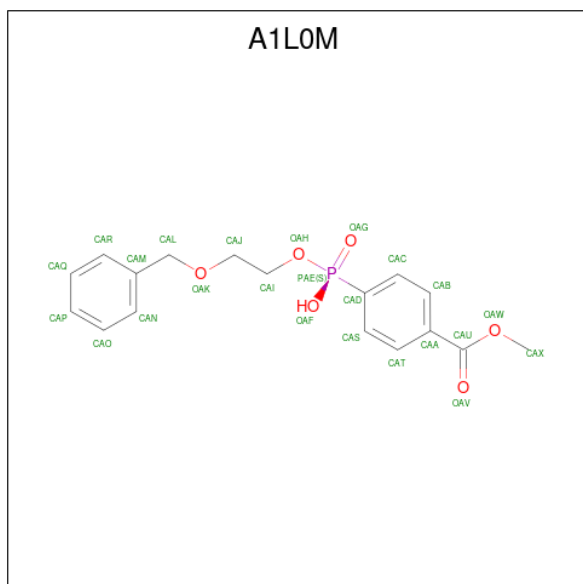
Chain	Residue	Modelled	Actual	Comment	Reference
A	45	GLY	-	expression tag	UNP W0TJ64
A	46	PRO	-	expression tag	UNP W0TJ64
A	123	HIS	GLN	engineered mutation	UNP W0TJ64
A	138	ALA	GLN	engineered mutation	UNP W0TJ64
A	176	ALA	SER	engineered mutation	UNP W0TJ64
A	202	HIS	ASN	engineered mutation	UNP W0TJ64
A	226	PRO	SER	engineered mutation	UNP W0TJ64
A	228	SER	ARG	engineered mutation	UNP W0TJ64
A	250	CYS	ASP	engineered mutation	UNP W0TJ64
A	296	CYS	GLU	engineered mutation	UNP W0TJ64
B	45	GLY	-	expression tag	UNP W0TJ64
B	46	PRO	-	expression tag	UNP W0TJ64
B	123	HIS	GLN	engineered mutation	UNP W0TJ64
B	138	ALA	GLN	engineered mutation	UNP W0TJ64
B	176	ALA	SER	engineered mutation	UNP W0TJ64
B	202	HIS	ASN	engineered mutation	UNP W0TJ64
B	226	PRO	SER	engineered mutation	UNP W0TJ64
B	228	SER	ARG	engineered mutation	UNP W0TJ64
B	250	CYS	ASP	engineered mutation	UNP W0TJ64
B	296	CYS	GLU	engineered mutation	UNP W0TJ64

- Molecule 2 is (4S)-2-METHYL-2,4-PENTANEDIOL (CCD ID: MPD) (formula: C₆H₁₄O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			8	6	2		
2	B	1	Total	C	O	0	0
			8	6	2		

- Molecule 3 is (4-methoxycarbonylphenyl)-(2-phenylmethoxyethoxy)phosphinic acid (CCD ID: A1L0M) (formula: $C_{17}H_{19}O_6P$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	O	P	0	0
			24	17	6	1		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	B	1	Total	C	O	P	0	0
			24	17	6	1		

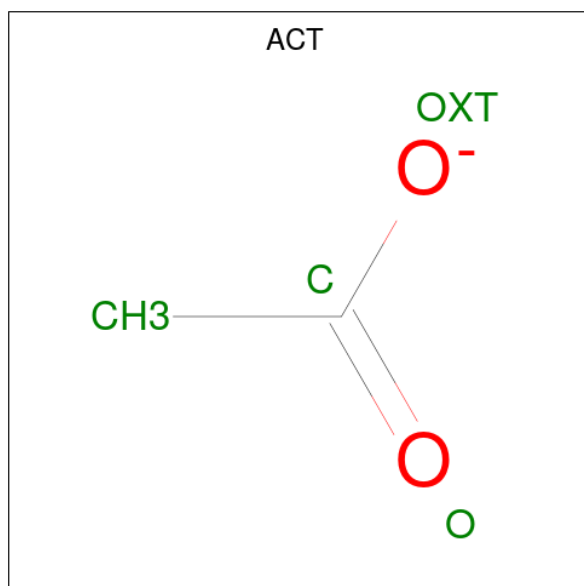
- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

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

- Molecule 5 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Cl	0	0
			1	1		
5	B	2	Total	Cl	0	0
			2	2		

- Molecule 6 is ACETATE ION (CCD ID: ACT) (formula: C₂H₃O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	B	1	Total	C	O	0	0
			4	2	2		
6	B	1	Total	C	O	0	0
			4	2	2		

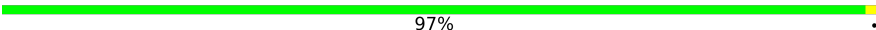
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	320	Total 320	O 320	0	0
7	B	289	Total 289	O 289	0	0

3 Residue-property plots [i](#)

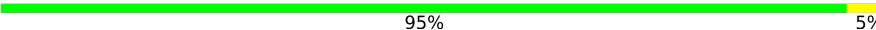
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Alpha/beta hydrolase family protein

Chain A:  97%



- Molecule 1: Alpha/beta hydrolase family protein

Chain B:  95% 5%



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	41.56Å 78.84Å 74.25Å 90.00° 106.12° 90.00°	Depositor
Resolution (Å)	39.93 – 1.89 39.93 – 1.89	Depositor EDS
% Data completeness (in resolution range)	100.0 (39.93-1.89) 100.0 (39.93-1.89)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.45	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.67 (at 1.89Å)	Xtriage
Refinement program	PHENIX 1.19.2_4158	Depositor
R, R_{free}	0.159 , 0.207 (Not available) , 0.179	Depositor DCC
R_{free} test set	1853 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	13.3	Xtriage
Anisotropy	0.096	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 44.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.030 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4706	wwPDB-VP
Average B, all atoms (Å ²)	14.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 13.30% 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: CA, MPD, ACT, CL, A1L0M

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	0.31	0/2063	0.49	0/2810
1	B	0.28	0/2072	0.48	0/2822
All	All	0.29	0/4135	0.48	0/5632

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	2006	0	1941	6	0
1	B	2012	0	1947	8	0
2	A	8	0	14	0	0
2	B	8	0	14	2	0
3	A	24	0	0	1	0
3	B	24	0	0	1	0
4	A	2	0	0	0	0
4	B	2	0	0	0	0
5	A	1	0	0	0	0
5	B	2	0	0	0	0
6	B	8	0	6	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	A	320	0	0	4	0
7	B	289	0	0	4	0
All	All	4706	0	3922	15	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 (15) 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:156:ARG:NH2	7:B:501:HOH:O	2.31	0.63
1:A:93:ASP:OD1	1:A:93:ASP:N	2.29	0.55
1:A:176:ALA:HB1	3:A:402:A1L0M:OAF	2.13	0.48
1:A:50:GLU:OE2	7:A:501:HOH:O	2.20	0.48
1:B:209:GLN:NE2	7:B:503:HOH:O	2.33	0.46
1:A:57:GLU:HG3	7:A:759:HOH:O	2.15	0.45
1:B:64:ARG:NH2	7:B:506:HOH:O	2.41	0.45
1:B:251:GLY:HA3	2:B:401:MPD:H51	1.98	0.45
1:B:176:ALA:HB1	3:B:404:A1L0M:OAG	2.18	0.43
1:A:151:ASP:OD2	7:A:502:HOH:O	2.20	0.43
1:B:297:GLU:HG3	1:B:298:TYR:N	2.32	0.43
1:A:73:ARG:NH2	7:A:517:HOH:O	2.52	0.42
2:B:401:MPD:H53	7:B:746:HOH:O	2.19	0.42
1:B:186:THR:HG21	1:B:195:SER:HB2	2.01	0.42
1:B:93:ASP:OD1	1:B:94:GLU:HG3	2.21	0.41

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	257/260 (99%)	250 (97%)	7 (3%)	0	100	100
1	B	258/260 (99%)	251 (97%)	7 (3%)	0	100	100
All	All	515/520 (99%)	501 (97%)	14 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	214/214 (100%)	213 (100%)	1 (0%)	81	84
1	B	215/214 (100%)	212 (99%)	3 (1%)	59	59
All	All	429/428 (100%)	425 (99%)	4 (1%)	76	73

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	93	ASP
1	B	73	ARG
1	B	163[A]	GLU
1	B	163[B]	GLU

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	110	GLN
1	A	284	GLN
1	B	110	GLN
1	B	211	GLN
1	B	284	GLN

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 13 ligands modelled in this entry, 7 are monoatomic - leaving 6 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$
6	ACT	B	403	-	3,3,3	1.58	0	3,3,3	1.70	1 (33%)
6	ACT	B	402	-	3,3,3	1.54	0	3,3,3	1.62	1 (33%)
3	A1L0M	A	402	-	24,25,25	2.20	5 (20%)	31,33,33	1.52	4 (12%)
3	A1L0M	B	404	-	24,25,25	1.62	4 (16%)	31,33,33	1.25	4 (12%)
2	MPD	B	401	-	7,7,7	0.29	0	9,10,10	0.42	0
2	MPD	A	401	-	7,7,7	0.33	0	9,10,10	0.41	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
3	A1L0M	B	404	-	-	1/21/21/21	0/2/2/2
2	MPD	B	401	-	-	2/5/5/5	-
3	A1L0M	A	402	-	-	8/21/21/21	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	MPD	A	401	-	-	5/5/5/5	-

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	402	A1L0M	PAE-CAD	-6.19	1.70	1.80
3	A	402	A1L0M	CAA-CAU	-4.88	1.39	1.50
3	A	402	A1L0M	CAL-CAM	-4.53	1.40	1.50
3	B	404	A1L0M	CAA-CAU	-4.49	1.39	1.50
3	B	404	A1L0M	CAL-CAM	-4.25	1.40	1.50
3	A	402	A1L0M	PAE-OAG	4.21	1.61	1.51
3	B	404	A1L0M	PAE-CAD	-3.46	1.74	1.80
3	A	402	A1L0M	PAE-OAF	-2.79	1.48	1.56
3	B	404	A1L0M	PAE-OAF	2.06	1.61	1.56

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	402	A1L0M	OAF-PAE-CAD	5.22	117.84	106.04
3	A	402	A1L0M	CAX-OAW-CAU	-4.07	107.99	115.81
3	B	404	A1L0M	OAF-PAE-CAD	3.91	114.89	106.04
3	B	404	A1L0M	OAG-PAE-CAD	3.56	115.95	108.72
3	B	404	A1L0M	OAH-PAE-CAD	2.46	112.71	105.00
3	A	402	A1L0M	PAE-CAD-CAS	-2.40	116.55	120.58
3	B	404	A1L0M	OAW-CAU-CAA	2.35	115.83	112.31
6	B	403	ACT	O-C-CH3	-2.31	113.04	122.53
6	B	402	ACT	O-C-CH3	-2.20	113.49	122.53
3	A	402	A1L0M	OAG-PAE-CAD	2.09	112.98	108.72

There are no chirality outliers.

All (16) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	401	MPD	CM-C2-C3-C4
2	A	401	MPD	C2-C3-C4-O4
2	A	401	MPD	C2-C3-C4-C5
2	B	401	MPD	C2-C3-C4-O4
2	B	401	MPD	C2-C3-C4-C5
3	A	402	A1L0M	CAA-CAU-OAW-CAX
3	B	404	A1L0M	OAH-CAI-CAJ-OAK
3	A	402	A1L0M	OAV-CAU-OAW-CAX

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Mol	Chain	Res	Type	Atoms
3	A	402	A1L0M	CAT-CAA-CAU-OAW
3	A	402	A1L0M	CAM-CAL-OAK-CAJ
3	A	402	A1L0M	CAB-CAA-CAU-OAW
3	A	402	A1L0M	OAH-CAI-CAJ-OAK
2	A	401	MPD	O2-C2-C3-C4
2	A	401	MPD	C1-C2-C3-C4
3	A	402	A1L0M	CAI-OAH-PAE-OAF
3	A	402	A1L0M	CAT-CAA-CAU-OAV

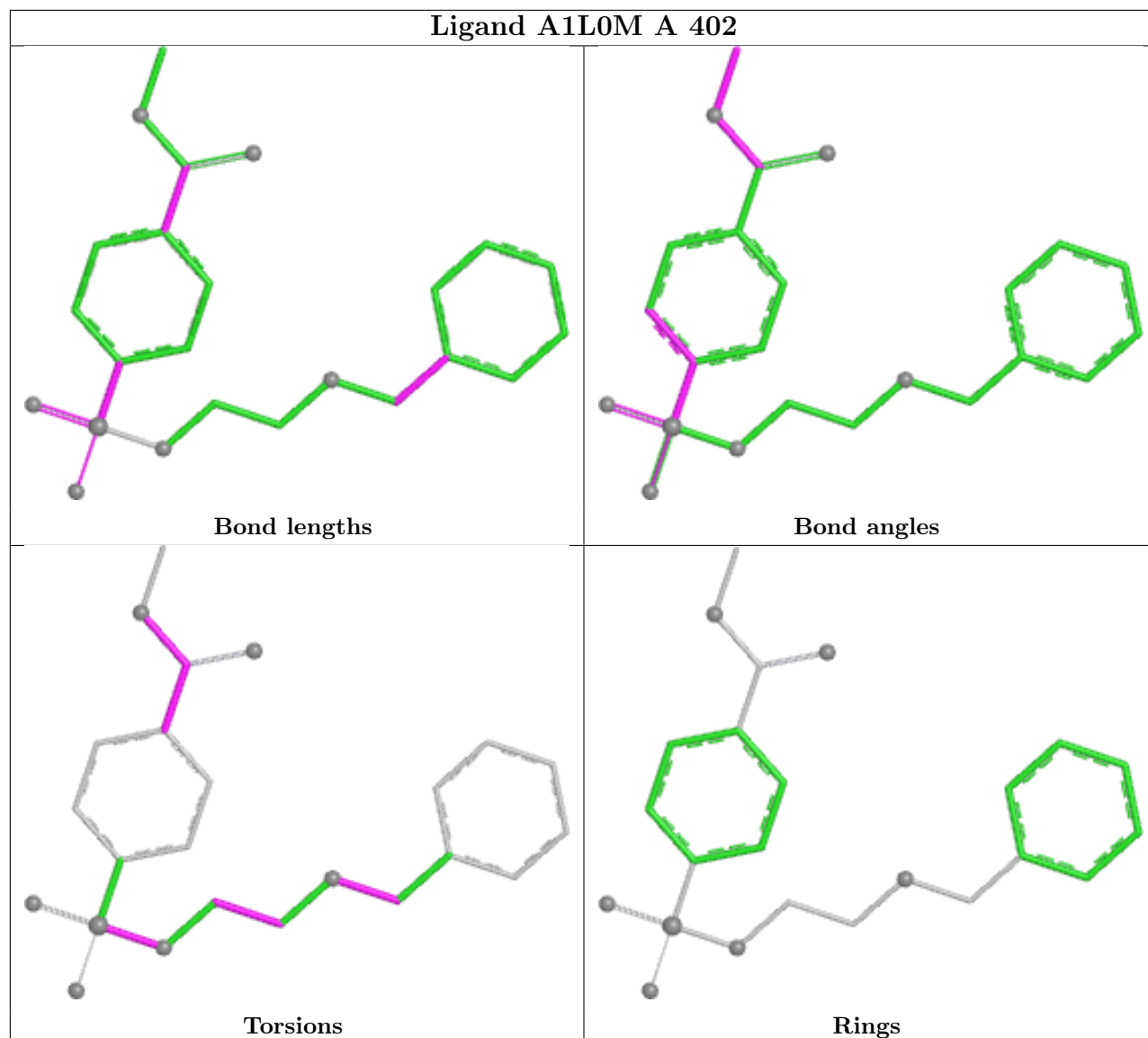
There are no ring outliers.

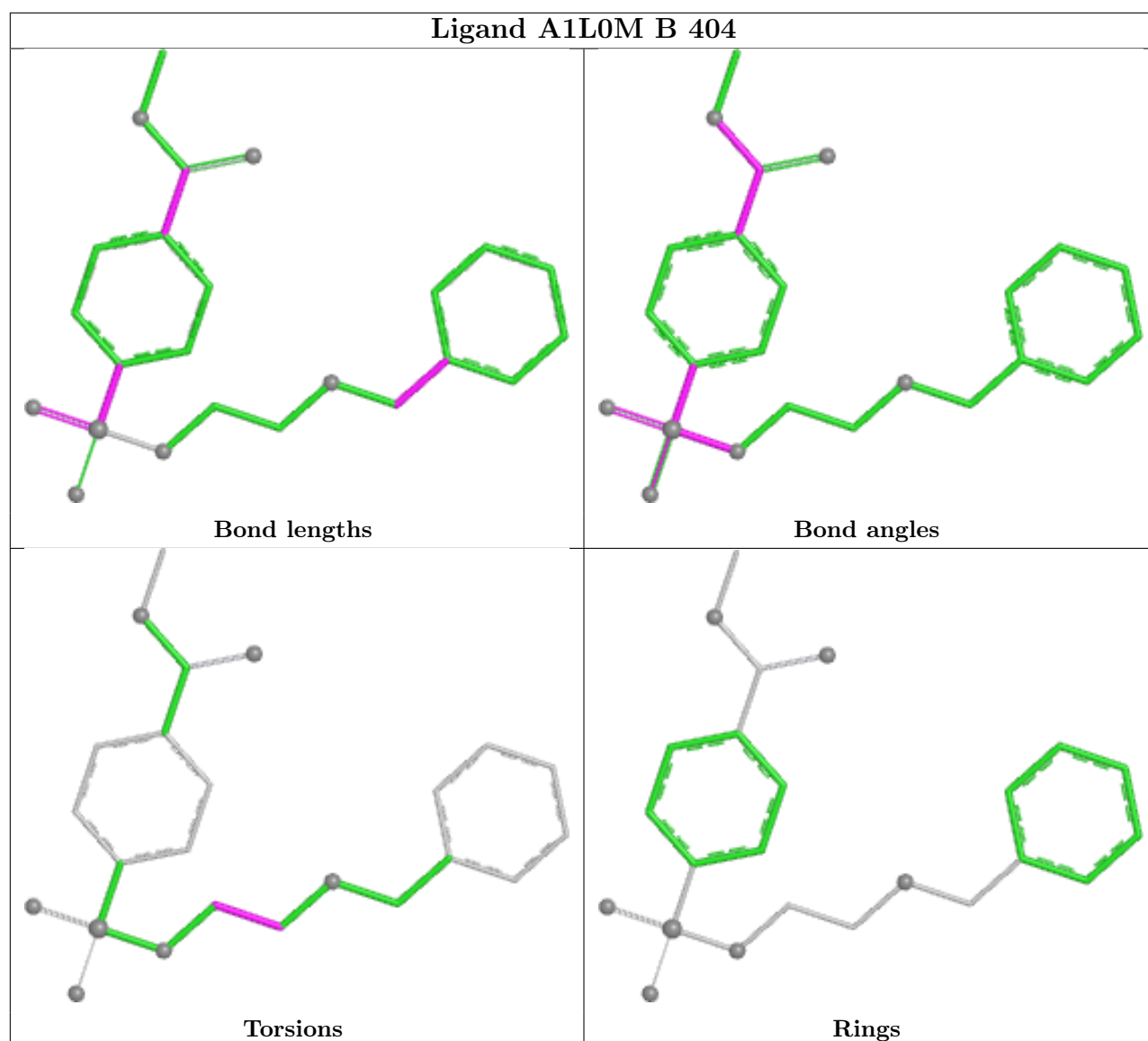
3 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	402	A1L0M	1	0
3	B	404	A1L0M	1	0
2	B	401	MPD	2	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.

Ligand A1L0M A 402





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	259/260 (99%)	-0.60	0 100 100	6, 11, 22, 29	0
1	B	259/260 (99%)	-0.53	0 100 100	7, 12, 22, 30	1 (0%)
All	All	518/520 (99%)	-0.57	0 100 100	6, 12, 22, 30	1 (0%)

There are no RSRZ outliers to report.

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(Å ²)	Q<0.9
2	MPD	A	401	8/8	0.68	0.18	26,34,43,45	0
6	ACT	B	403	4/4	0.79	0.12	28,29,34,38	0
6	ACT	B	402	4/4	0.84	0.10	22,30,31,31	0
2	MPD	B	401	8/8	0.84	0.11	17,22,24,27	0
3	A1L0M	B	404	24/24	0.87	0.16	10,36,52,55	0
3	A1L0M	A	402	24/24	0.88	0.14	7,33,44,49	0
4	CA	B	406	1/1	0.88	0.30	52,52,52,52	0

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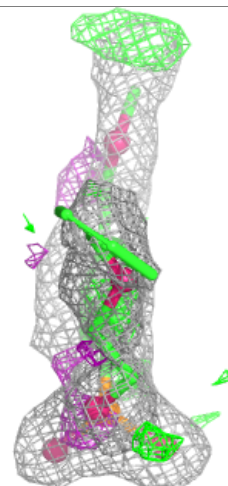
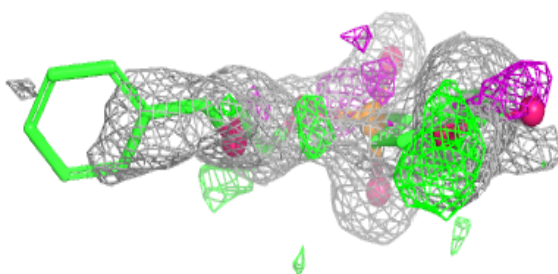
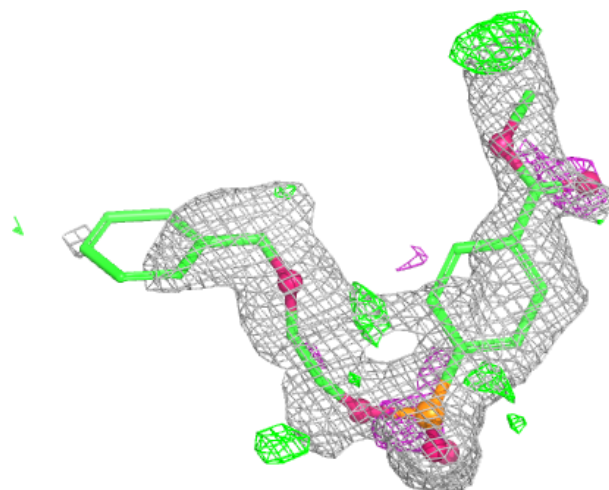
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	CA	A	404	1/1	0.94	0.23	43,43,43,43	0
4	CA	B	405	1/1	0.98	0.17	30,30,30,30	0
4	CA	A	403	1/1	0.98	0.12	26,26,26,26	0
5	CL	A	405	1/1	0.99	0.02	10,10,10,10	0
5	CL	B	408	1/1	0.99	0.04	11,11,11,11	0
5	CL	B	407	1/1	1.00	0.04	11,11,11,11	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.

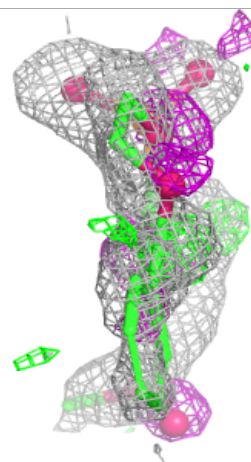
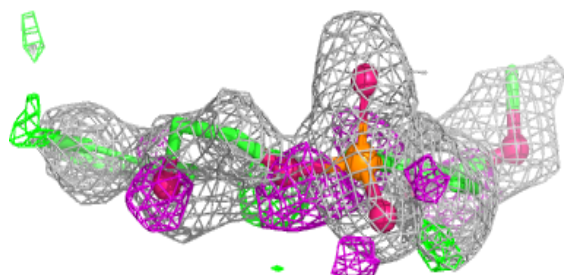
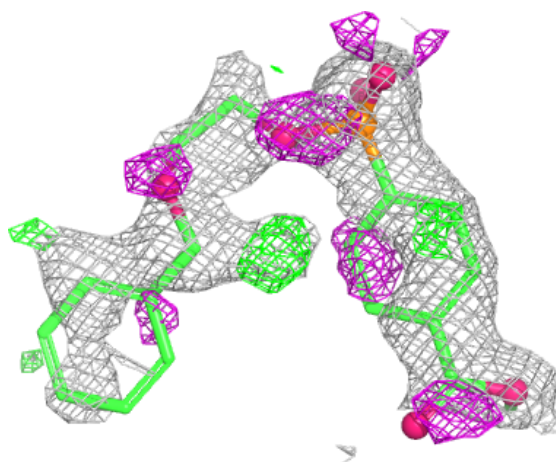
Electron density around A1L0M B 404:

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 A1L0M A 402:

$2mF_o-DF_c$ (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.