



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 19, 2026 – 02:28 AM UTC

PDB ID : 6BS3 / pdb_00006bs3
Title : Crystal structure of ADP-bound bacterial Get3-like A and B in Mycobacterium tuberculosis
Authors : Li, H.; Hu, K.; Kovach, A.
Deposited on : 2017-12-01
Resolution : 2.30 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

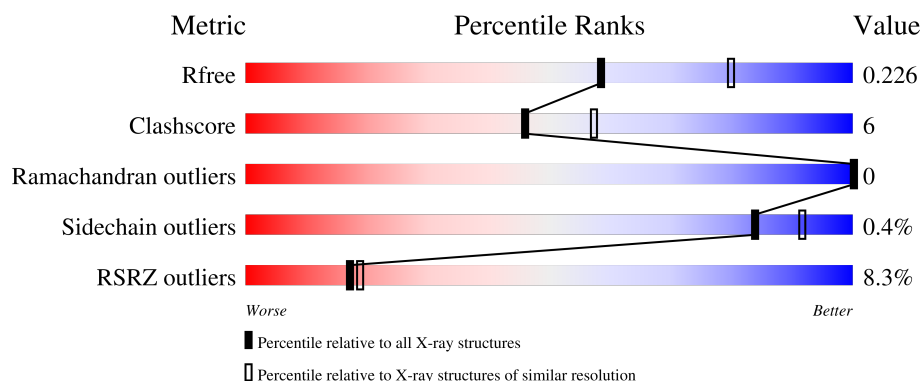
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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	6319 (2.30-2.30)
Clashscore	190562	6919 (2.30-2.30)
Ramachandran outliers	187476	6854 (2.30-2.30)
Sidechain outliers	187428	6854 (2.30-2.30)
RSRZ outliers	180081	6325 (2.30-2.30)

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	340	6% 89% 9% .
2	B	394	9% 77% 12% 10%

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 5464 atoms, of which 5 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 Putative ATPase Rv3679.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	330	Total	C	N	O	S	0	0	0
			2463	1560	431	469	3			

- Molecule 2 is a protein called Anion transporter.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	355	Total	C	N	O	S	0	0	0
			2683	1685	475	506	17			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	387	LEU	-	expression tag	UNP A0A089QYG8
B	388	GLU	-	expression tag	UNP A0A089QYG8
B	389	HIS	-	expression tag	UNP A0A089QYG8
B	390	HIS	-	expression tag	UNP A0A089QYG8
B	391	HIS	-	expression tag	UNP A0A089QYG8
B	392	HIS	-	expression tag	UNP A0A089QYG8
B	393	HIS	-	expression tag	UNP A0A089QYG8
B	394	HIS	-	expression tag	UNP A0A089QYG8

- Molecule 3 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total 27	C 10	N 5	O 10	P 2	0	0
3	B	1	Total 27	C 10	N 5	O 10	P 2	0	0

- Molecule 4 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

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

- Molecule 5 is IMIDAZOLE (CCD ID: IMD) (formula: $\text{C}_3\text{H}_5\text{N}_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	B	1	Total	C	H	N	0	0
			10	3	5	2		

- Molecule 6 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	B	2	Total	Ca	0	0
			2	2		

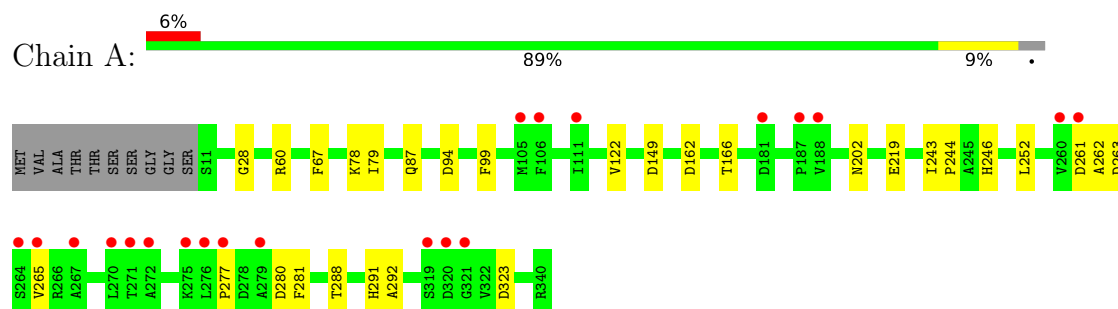
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	128	Total	O	0	0
			128	128		
7	B	122	Total	O	0	0
			122	122		

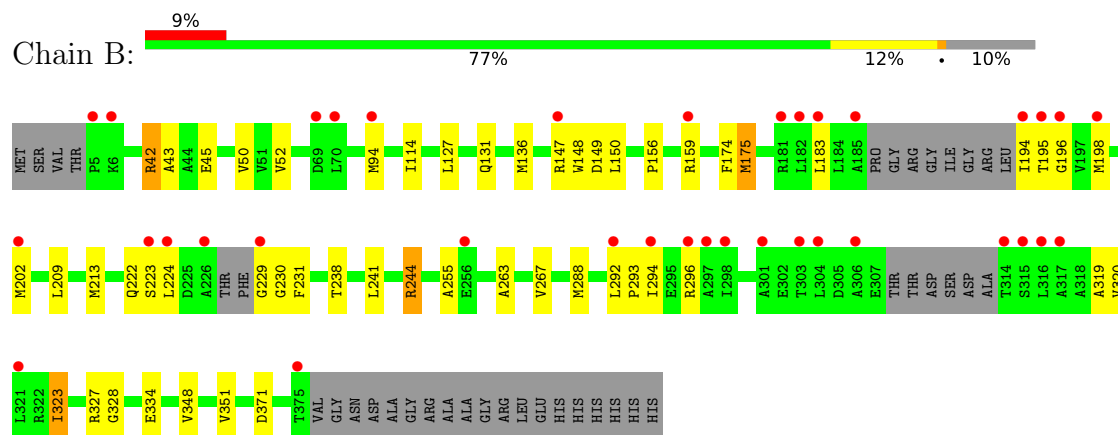
3 Residue-property plots

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: Putative ATPase Rv3679



• Molecule 2: Anion transporter



4 Data and refinement statistics

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	121.34Å 121.34Å 120.97Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	48.19 – 2.30 48.19 – 2.30	Depositor EDS
% Data completeness (in resolution range)	99.3 (48.19-2.30) 99.3 (48.19-2.30)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.64 (at 2.29Å)	Xtriage
Refinement program	BUSTER 2.11.7	Depositor
R, R_{free}	0.196 , 0.229 0.198 , 0.226	Depositor DCC
R_{free} test set	3196 reflections (6.26%)	wwPDB-VP
Wilson B-factor (Å ²)	51.4	Xtriage
Anisotropy	0.113	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 42.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.017 for -h,-k,l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5464	wwPDB-VP
Average B, all atoms (Å ²)	63.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.04% 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: IMD, MG, CA, ADP

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	0.90	0/2497	1.38	6/3397 (0.2%)
2	B	0.89	1/2721 (0.0%)	1.36	10/3688 (0.3%)
All	All	0.89	1/5218 (0.0%)	1.37	16/7085 (0.2%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	175	MET	SD-CE	-6.89	1.62	1.79

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	229	GLY	CA-C-N	6.74	127.61	119.99
2	B	229	GLY	C-N-CA	6.74	127.61	119.99
1	A	162	ASP	CA-CB-CG	6.08	118.69	112.60
2	B	149	ASP	CA-CB-CG	5.77	118.37	112.60
1	A	323	ASP	CA-CB-CG	5.72	118.32	112.60
1	A	162	ASP	N-CA-C	-5.55	97.91	108.17
1	A	94	ASP	CA-CB-CG	5.47	118.07	112.60
2	B	323	ILE	CA-C-N	5.38	127.43	120.44
2	B	323	ILE	C-N-CA	5.38	127.43	120.44
1	A	149	ASP	CA-CB-CG	5.32	117.92	112.60
2	B	348	VAL	N-CA-C	5.25	113.06	107.76
1	A	202	ASN	CA-CB-CG	5.21	117.81	112.60
2	B	222	GLN	CA-C-N	5.13	127.10	120.44
2	B	222	GLN	C-N-CA	5.13	127.10	120.44
2	B	230	GLY	N-CA-C	5.01	118.70	112.64
2	B	156	PRO	N-CA-C	5.01	115.28	110.47

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	2463	0	2554	25	0
2	B	2683	0	2735	42	0
3	A	27	0	12	0	0
3	B	27	0	12	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
5	B	5	5	5	0	0
6	B	2	0	0	0	0
7	A	128	0	0	0	0
7	B	122	0	0	0	0
All	All	5459	5	5318	61	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 6.

All (61) 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:246:HIS:O	2:B:319:ALA:HB1	1.74	0.88
1:A:99:PHE:HD2	1:A:122:VAL:HG13	1.39	0.86
2:B:50:VAL:HG22	2:B:150:LEU:HB3	1.68	0.75
2:B:195:THR:HG22	2:B:196:GLY:N	2.11	0.66
2:B:195:THR:HG22	2:B:196:GLY:H	1.60	0.66
2:B:147:ARG:HB3	2:B:148:TRP:CZ3	2.34	0.62
2:B:114:ILE:HG13	2:B:223:SER:OG	2.00	0.61
2:B:94:MET:HE2	2:B:131:GLN:HG3	1.83	0.61
1:A:28:GLY:C	1:A:166:THR:HG23	2.27	0.60
1:A:28:GLY:CA	1:A:166:THR:HG23	2.32	0.59
1:A:67:PHE:CG	1:A:79:ILE:HD11	2.37	0.59
2:B:195:THR:CG2	2:B:196:GLY:H	2.16	0.58
1:A:60:ARG:HH21	2:B:159:ARG:HE	1.54	0.55
1:A:262:ALA:HB1	1:A:281:PHE:CE2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:43:ALA:HB3	2:B:50:VAL:HG21	1.87	0.55
2:B:136:MET:HE3	2:B:238:THR:HG22	1.91	0.53
2:B:294:ILE:CD1	2:B:328:GLY:HA3	2.39	0.52
1:A:246:HIS:O	2:B:319:ALA:CB	2.55	0.52
2:B:209:LEU:HD22	2:B:213:MET:HE1	1.91	0.51
1:A:99:PHE:CD2	1:A:122:VAL:HG13	2.30	0.51
1:A:262:ALA:HB1	1:A:281:PHE:CZ	2.46	0.51
1:A:261:ASP:O	1:A:265:VAL:HG23	2.11	0.51
2:B:183:LEU:HD21	2:B:198:MET:HE3	1.93	0.51
1:A:252:LEU:HD12	1:A:292:ALA:CB	2.40	0.51
2:B:42:ARG:NH1	2:B:371:ASP:OD1	2.44	0.50
2:B:294:ILE:HD11	2:B:328:GLY:HA3	1.93	0.50
2:B:147:ARG:O	2:B:147:ARG:HG3	2.11	0.50
1:A:252:LEU:HD11	1:A:292:ALA:HA	1.94	0.49
1:A:252:LEU:HD12	1:A:292:ALA:HB1	1.93	0.49
2:B:292:LEU:HD12	2:B:293:PRO:HD2	1.95	0.49
2:B:147:ARG:HB3	2:B:148:TRP:CE3	2.49	0.47
2:B:174:PHE:HD2	2:B:175:MET:HE2	1.80	0.47
1:A:67:PHE:CB	1:A:79:ILE:HD11	2.45	0.47
2:B:52:VAL:HG13	2:B:52:VAL:O	2.16	0.46
1:A:166:THR:OG1	1:A:219:GLU:OE1	2.33	0.46
2:B:127:LEU:HD13	2:B:175:MET:CE	2.45	0.46
2:B:255:ALA:HB1	2:B:334:GLU:HG2	1.97	0.46
2:B:293:PRO:HG2	2:B:296:ARG:HB2	1.97	0.45
1:A:252:LEU:CD1	1:A:292:ALA:HA	2.47	0.45
1:A:28:GLY:HA2	1:A:166:THR:HG23	1.98	0.45
1:A:60:ARG:NH2	2:B:159:ARG:HE	2.14	0.45
2:B:195:THR:HB	2:B:198:MET:HB2	1.98	0.45
1:A:78:LYS:HG3	1:A:87:GLN:HG3	1.99	0.45
2:B:351:VAL:HG13	2:B:351:VAL:O	2.17	0.45
2:B:241:LEU:HA	2:B:244:ARG:HD3	1.99	0.44
1:A:243:ILE:HB	1:A:244:PRO:HD2	1.99	0.44
1:A:291:HIS:CD2	2:B:323:ILE:HD12	2.52	0.44
1:A:288:THR:HG21	2:B:320:VAL:HG22	2.00	0.44
2:B:195:THR:CG2	2:B:196:GLY:N	2.73	0.44
2:B:42:ARG:NH2	2:B:45:GLU:OE1	2.51	0.44
2:B:263:ALA:O	2:B:267:VAL:HG23	2.18	0.43
2:B:224:LEU:HD21	2:B:231:PHE:CZ	2.54	0.42
2:B:194:ILE:HG12	2:B:202:MET:HE1	2.00	0.42
2:B:42:ARG:HA	2:B:42:ARG:HD3	1.67	0.42
1:A:262:ALA:O	1:A:263:ASP:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:127:LEU:CD1	2:B:175:MET:HE1	2.50	0.41
1:A:277:PRO:HD2	1:A:280:ASP:HB2	2.02	0.41
2:B:288:MET:SD	2:B:327:ARG:HG2	2.60	0.41
2:B:147:ARG:O	2:B:148:TRP:CG	2.74	0.41
2:B:127:LEU:HD13	2:B:175:MET:HE1	2.04	0.40
2:B:43:ALA:CB	2:B:50:VAL:HG21	2.50	0.40

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	328/340 (96%)	324 (99%)	4 (1%)	0	100	100
2	B	347/394 (88%)	339 (98%)	8 (2%)	0	100	100
All	All	675/734 (92%)	663 (98%)	12 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	258/265 (97%)	258 (100%)	0	100	100
2	B	283/312 (91%)	281 (99%)	2 (1%)	76	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	541/577 (94%)	539 (100%)	2 (0%)	84	92

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

Mol	Chain	Res	Type
2	B	42	ARG
2	B	244	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	203	GLN
1	A	290	GLN
1	A	304	GLN
2	B	68	ASN
2	B	104	GLN
2	B	212	GLN
2	B	372	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 7 ligands modelled in this entry, 4 are monoatomic - leaving 3 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	$\# Z > 2$
5	IMD	B	402	-	5,5,5	0.33	0	5,5,5	0.53	0
3	ADP	A	401	4	28,29,29	0.49	0	43,45,45	0.57	0
3	ADP	B	401	4	28,29,29	0.50	0	43,45,45	0.69	2 (4%)

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
5	IMD	B	402	-	-	-	0/1/1/1
3	ADP	A	401	4	-	0/16/32/32	0/3/3/3
3	ADP	B	401	4	-	2/16/32/32	0/3/3/3

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	401	ADP	O2B-PB-O3A	2.54	113.16	104.64
3	B	401	ADP	O2A-PA-O5'	2.45	118.67	107.57

There are no chirality outliers.

All (2) torsion outliers are listed below:

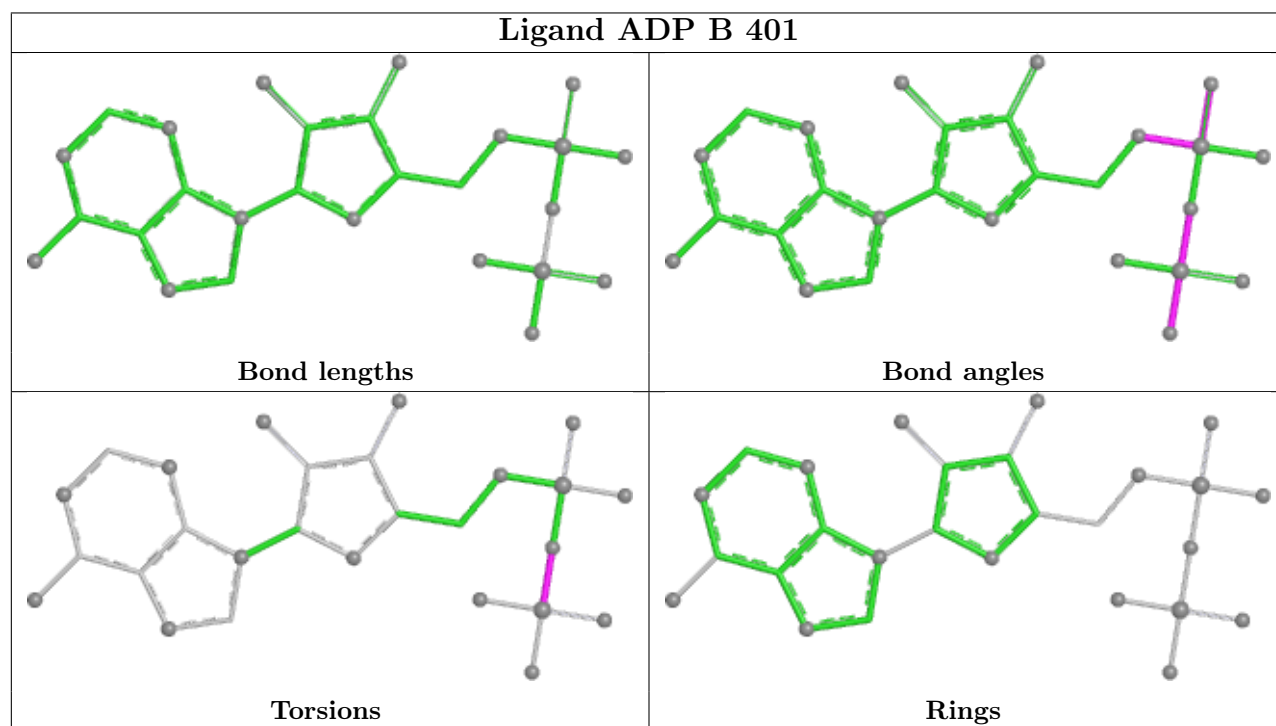
Mol	Chain	Res	Type	Atoms
3	B	401	ADP	PA-O3A-PB-O2B
3	B	401	ADP	PA-O3A-PB-O1B

There are no ring outliers.

No monomer is involved in short contacts.

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	330/340 (97%)	0.28	21 (6%) 25 27	38, 55, 110, 125	0
2	B	355/394 (90%)	0.51	36 (10%) 12 14	36, 57, 108, 148	0
All	All	685/734 (93%)	0.40	57 (8%) 17 19	36, 56, 109, 148	0

All (57) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	194	ILE	9.3
2	B	375	THR	6.0
2	B	70	LEU	5.7
2	B	185	ALA	5.1
2	B	5	PRO	5.0
2	B	182	LEU	5.0
2	B	226	ALA	4.7
2	B	314	THR	4.3
1	A	270	LEU	4.1
2	B	147	ARG	3.9
2	B	195	THR	3.5
1	A	260	VAL	3.5
1	A	105	MET	3.2
1	A	188	VAL	3.2
2	B	196	GLY	3.2
1	A	319	SER	3.1
2	B	183	LEU	3.1
2	B	223	SER	3.0
2	B	6	LYS	2.9
2	B	321	LEU	2.9
2	B	303	THR	2.9
1	A	261	ASP	2.9
2	B	294	ILE	2.8
1	A	265	VAL	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	111	ILE	2.7
2	B	306	ALA	2.6
1	A	321	GLY	2.6
2	B	202	MET	2.6
1	A	187	PRO	2.6
2	B	298	ILE	2.5
2	B	181	ARG	2.5
1	A	181	ASP	2.5
2	B	316	LEU	2.4
2	B	315	SER	2.4
1	A	106	PHE	2.4
2	B	229	GLY	2.4
2	B	297	ALA	2.4
1	A	271	THR	2.4
2	B	159	ARG	2.4
2	B	69	ASP	2.3
1	A	276	LEU	2.3
2	B	224	LEU	2.3
1	A	277	PRO	2.3
1	A	275	LYS	2.3
1	A	272	ALA	2.2
2	B	94	MET	2.2
1	A	267	ALA	2.2
2	B	301	ALA	2.2
1	A	320	ASP	2.1
1	A	264	SER	2.1
1	A	279	ALA	2.1
2	B	317	ALA	2.1
2	B	256	GLU	2.1
2	B	304	LEU	2.0
2	B	296	ARG	2.0
2	B	198	MET	2.0
2	B	292	LEU	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](#)

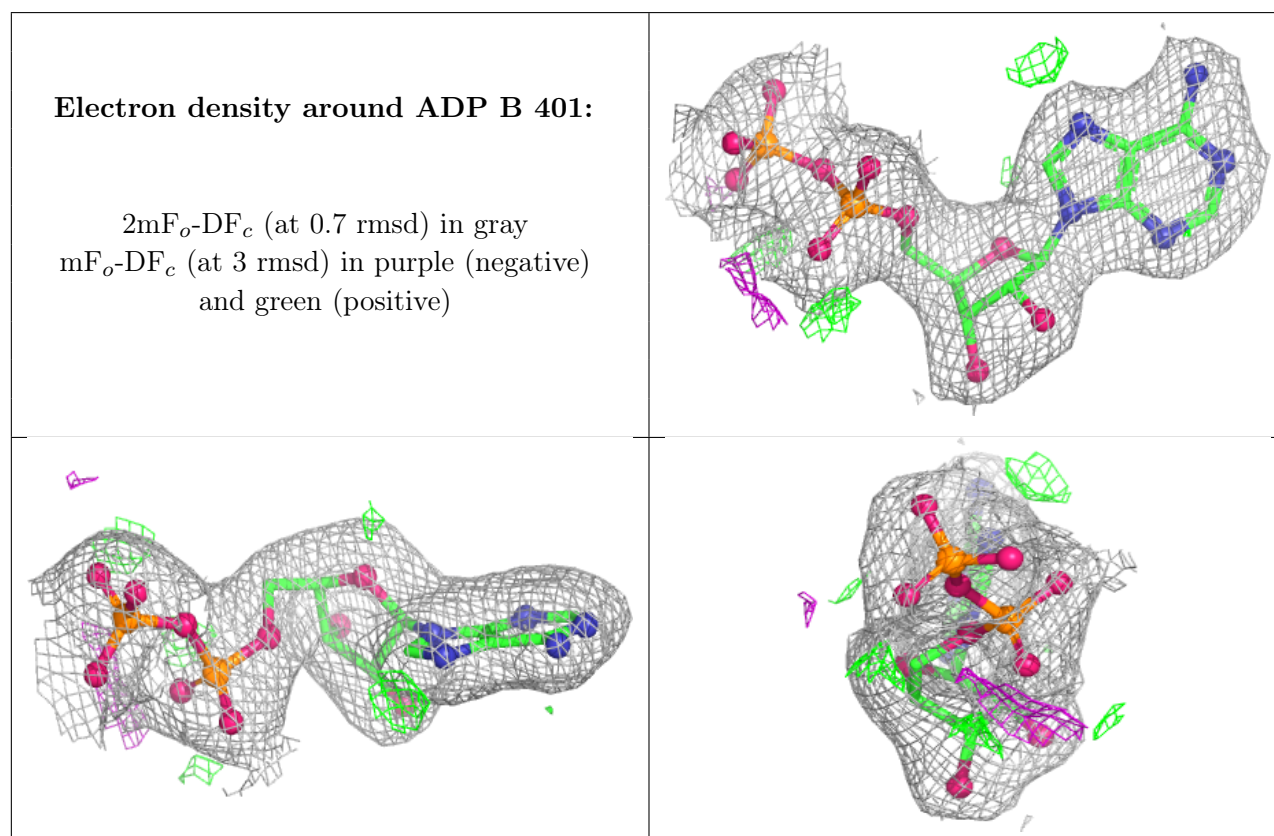
There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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
5	IMD	B	402	5/5	0.86	0.23	91,94,98,98	0
6	CA	B	404	1/1	0.89	0.35	93,93,93,93	0
6	CA	B	403	1/1	0.90	0.14	106,106,106,106	0
3	ADP	B	401	27/27	0.98	0.05	40,44,48,50	0
3	ADP	A	401	27/27	0.98	0.06	41,45,49,53	0
4	MG	A	402	1/1	0.99	0.09	36,36,36,36	0
4	MG	B	405	1/1	1.00	0.02	37,37,37,37	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.