



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 1, 2016 – 01:01 PM GMT

PDB ID : 3SJD
Title : Crystal structure of *S. cerevisiae* Get3 with bound ADP-Mg²⁺ in complex with Get2 cytosolic domain
Authors : Reitz, S.; Wild, K.; Sinning, I.
Deposited on : 2011-06-21
Resolution : 4.60 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
<http://wwpdb.org/validation/2016/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 : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

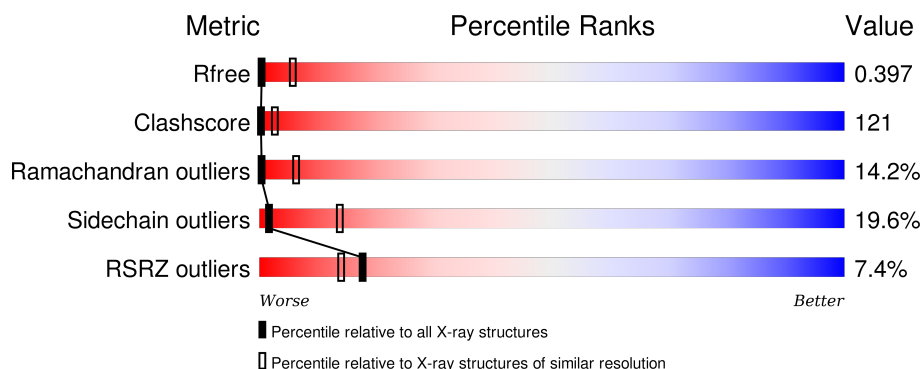
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.60 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}	91344	1089 (5.52-3.60)
Clashscore	102246	1004 (5.52-3.64)
Ramachandran outliers	100387	1131 (5.52-3.60)
Sidechain outliers	100360	1112 (5.50-3.60)
RSRZ outliers	91569	1092 (5.52-3.60)

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. 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	362	
1	B	362	
1	C	362	
2	D	46	
2	E	46	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	ADP	A	401	-	-	X	-
3	ADP	B	401	-	-	-	X
3	ADP	C	401	-	-	X	X

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 7387 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 ATPase GET3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	287	Total	C	N	O	S	0	0	0
			2273	1443	375	440	15			
1	B	280	Total	C	N	O	S	0	1	0
			2224	1414	368	427	15			
1	C	292	Total	C	N	O	S	0	0	0
			2310	1460	384	451	15			

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	355	LEU	-	EXPRESSION TAG	UNP Q12154
A	356	GLU	-	EXPRESSION TAG	UNP Q12154
A	357	HIS	-	EXPRESSION TAG	UNP Q12154
A	358	HIS	-	EXPRESSION TAG	UNP Q12154
A	359	HIS	-	EXPRESSION TAG	UNP Q12154
A	360	HIS	-	EXPRESSION TAG	UNP Q12154
A	361	HIS	-	EXPRESSION TAG	UNP Q12154
A	362	HIS	-	EXPRESSION TAG	UNP Q12154
B	355	LEU	-	EXPRESSION TAG	UNP Q12154
B	356	GLU	-	EXPRESSION TAG	UNP Q12154
B	357	HIS	-	EXPRESSION TAG	UNP Q12154
B	358	HIS	-	EXPRESSION TAG	UNP Q12154
B	359	HIS	-	EXPRESSION TAG	UNP Q12154
B	360	HIS	-	EXPRESSION TAG	UNP Q12154
B	361	HIS	-	EXPRESSION TAG	UNP Q12154
B	362	HIS	-	EXPRESSION TAG	UNP Q12154
C	355	LEU	-	EXPRESSION TAG	UNP Q12154
C	356	GLU	-	EXPRESSION TAG	UNP Q12154
C	357	HIS	-	EXPRESSION TAG	UNP Q12154
C	358	HIS	-	EXPRESSION TAG	UNP Q12154
C	359	HIS	-	EXPRESSION TAG	UNP Q12154
C	360	HIS	-	EXPRESSION TAG	UNP Q12154
C	361	HIS	-	EXPRESSION TAG	UNP Q12154

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Chain	Residue	Modelled	Actual	Comment	Reference
C	362	HIS	-	EXPRESSION TAG	UNP Q12154

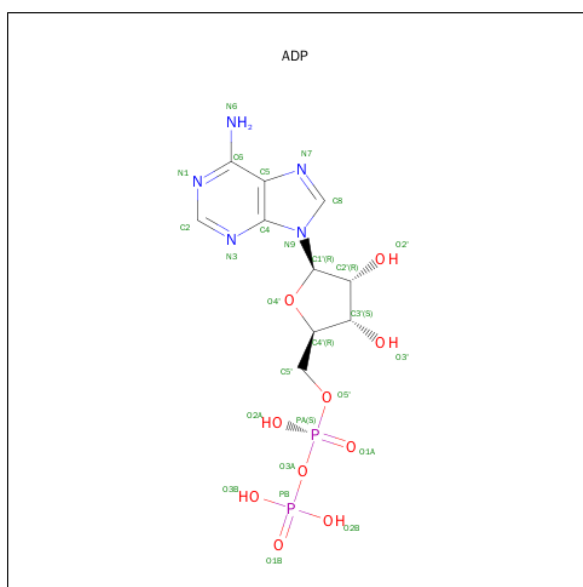
- Molecule 2 is a protein called Golgi to ER traffic protein 2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	D	30	Total	C	N	O	0	0	0
			247	148	55	44			
2	E	30	Total	C	N	O	0	0	0
			247	148	55	44			

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	-9	MET	-	EXPRESSION TAG	UNP P40056
D	-8	LYS	-	EXPRESSION TAG	UNP P40056
D	-7	HIS	-	EXPRESSION TAG	UNP P40056
D	-6	HIS	-	EXPRESSION TAG	UNP P40056
D	-5	HIS	-	EXPRESSION TAG	UNP P40056
D	-4	HIS	-	EXPRESSION TAG	UNP P40056
D	-3	HIS	-	EXPRESSION TAG	UNP P40056
D	-2	HIS	-	EXPRESSION TAG	UNP P40056
D	-1	PRO	-	EXPRESSION TAG	UNP P40056
D	0	MET	-	EXPRESSION TAG	UNP P40056
D	1	GLY	-	EXPRESSION TAG	UNP P40056
D	36	TRP	-	EXPRESSION TAG	UNP P40056
E	-9	MET	-	EXPRESSION TAG	UNP P40056
E	-8	LYS	-	EXPRESSION TAG	UNP P40056
E	-7	HIS	-	EXPRESSION TAG	UNP P40056
E	-6	HIS	-	EXPRESSION TAG	UNP P40056
E	-5	HIS	-	EXPRESSION TAG	UNP P40056
E	-4	HIS	-	EXPRESSION TAG	UNP P40056
E	-3	HIS	-	EXPRESSION TAG	UNP P40056
E	-2	HIS	-	EXPRESSION TAG	UNP P40056
E	-1	PRO	-	EXPRESSION TAG	UNP P40056
E	0	MET	-	EXPRESSION TAG	UNP P40056
E	1	GLY	-	EXPRESSION TAG	UNP P40056
E	36	TRP	-	EXPRESSION TAG	UNP P40056

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



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

- Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

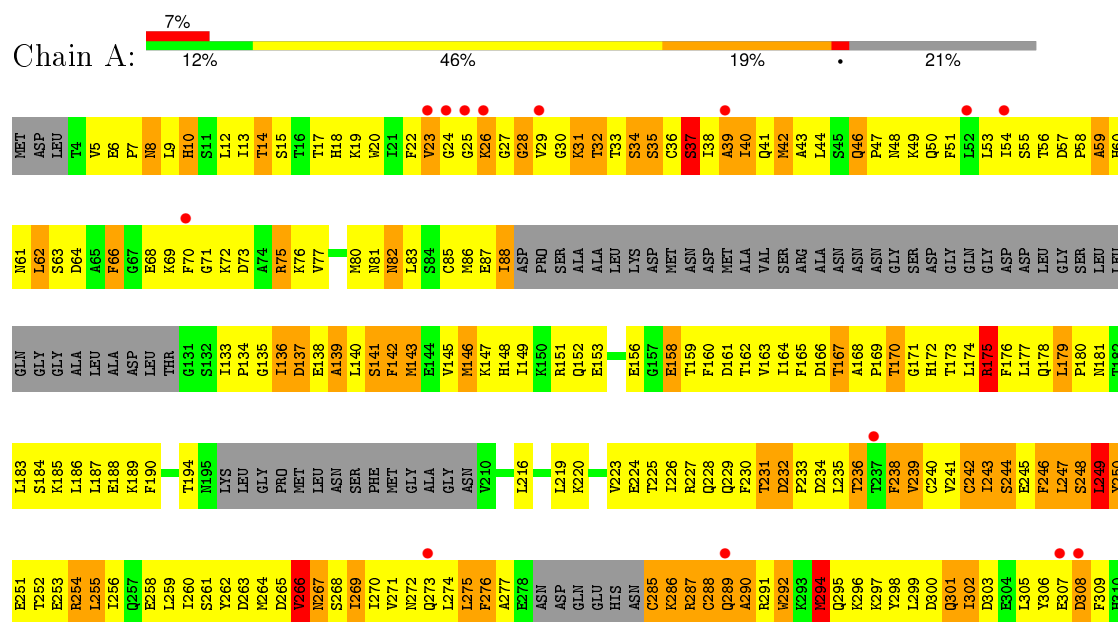
- Molecule 5 is ZINC ION (three-letter code: ZN) (formula: Zn).

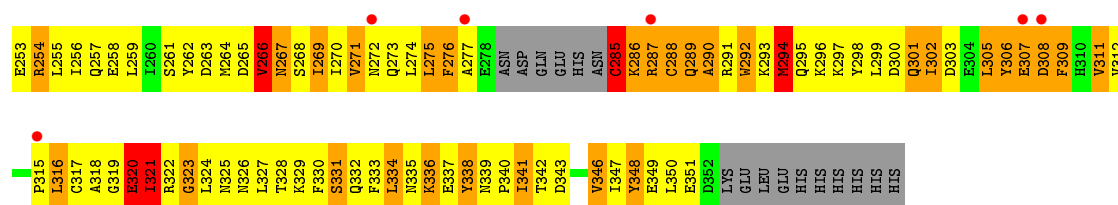
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	1	Total	Zn	0	0
			1	1		
5	C	1	Total	Zn	0	0
			1	1		

3 Residue-property plots

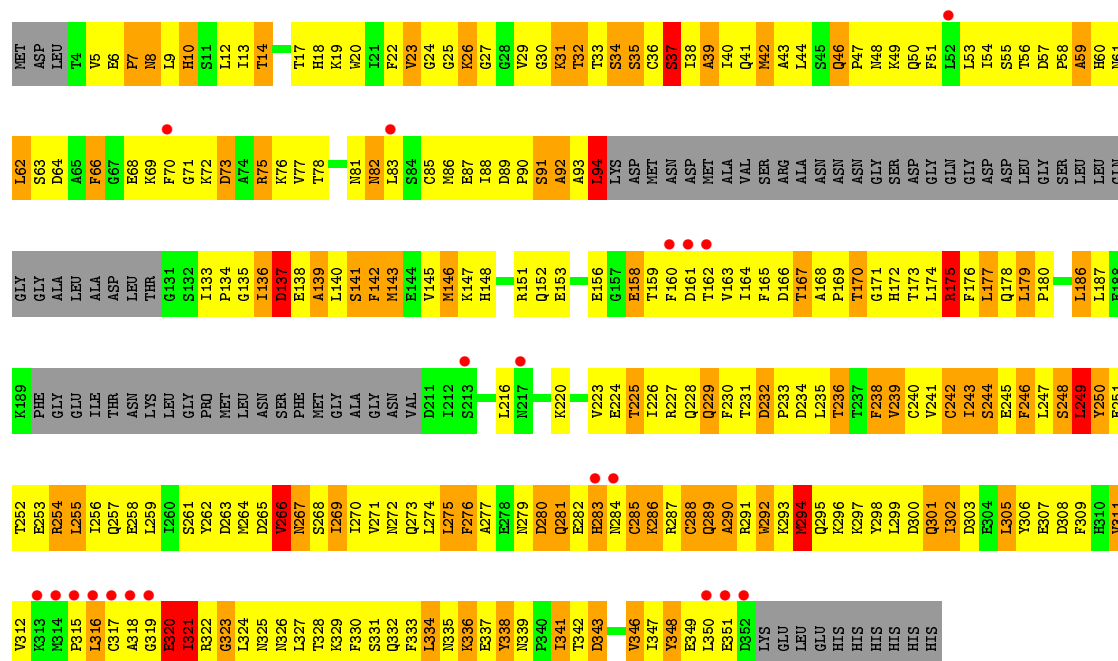
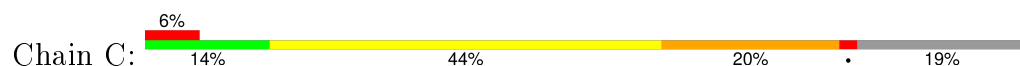
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according 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 ($\text{RSRZ} > 2$). 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: ATPase GET3

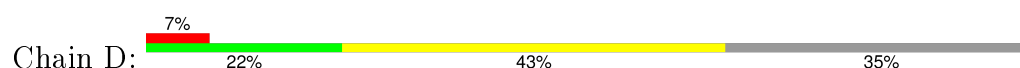




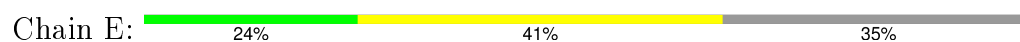
• Molecule 1: ATPase GET3



• Molecule 2: Golgi to ER traffic protein 2



• Molecule 2: Golgi to ER traffic protein 2



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	149.64Å 209.75Å 133.24Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	56.23 – 4.60 63.34 – 4.60	Depositor EDS
% Data completeness (in resolution range)	94.6 (56.23-4.60) 94.8 (63.34-4.60)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.96 (at 4.65Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE: 1.6_289)	Depositor
R, R_{free}	0.323 , 0.388 0.333 , 0.397	Depositor DCC
R_{free} test set	543 reflections (4.74%)	DCC
Wilson B-factor (Å ²)	248.9	Xtriage
Anisotropy	0.181	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 472.4	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtriage
Outliers	0 of 11882 reflections	Xtriage
F_o, F_c correlation	0.87	EDS
Total number of atoms	7387	wwPDB-VP
Average B, all atoms (Å ²)	344.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.14% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: ZN, MG, 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	0.56	0/2310	0.77	2/3113 (0.1%)
1	B	0.66	3/2264 (0.1%)	0.92	7/3048 (0.2%)
1	C	0.64	1/2349 (0.0%)	0.81	1/3169 (0.0%)
2	D	0.21	0/247	0.44	0/323
2	E	0.21	0/247	0.44	0/323
All	All	0.60	4/7417 (0.1%)	0.82	10/9976 (0.1%)

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

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	36	CYS	CB-SG	-6.89	1.70	1.82
1	B	242	CYS	CB-SG	-5.83	1.72	1.81
1	C	266	VAL	CA-CB	-5.50	1.43	1.54
1	B	285	CYS	CB-SG	5.31	1.91	1.82

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	228	GLN	C-N-CA	-16.50	80.45	121.70
1	B	228	GLN	CA-C-N	-10.77	93.50	117.20
1	B	228	GLN	O-C-N	10.53	139.55	122.70
1	B	308	ASP	N-CA-CB	-8.14	95.95	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	308	ASP	N-CA-C	6.98	129.84	111.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	231	THR	Mainchain

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	2273	0	2264	577	0
1	B	2224	0	2220	595	0
1	C	2310	0	2287	592	0
2	D	247	0	261	59	0
2	E	247	0	263	43	0
3	A	27	0	12	11	0
3	B	27	0	12	8	0
3	C	27	0	12	10	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	1	0
All	All	7387	0	7331	1783	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 121.

The worst 5 of 1783 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:228:GLN:HE22	1:B:229:GLN:CG	1.19	1.55
1:A:179:LEU:HD21	1:A:219:LEU:CD2	1.01	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:179:LEU:CD2	1:A:219:LEU:HD21	0.98	1.45
1:B:228:GLN:NE2	1:B:229:GLN:CB	1.78	1.45
1:B:178:GLN:OE1	1:B:262:TYR:CE1	1.72	1.42

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	279/362 (77%)	168 (60%)	70 (25%)	41 (15%)	0	6
1	B	273/362 (75%)	163 (60%)	68 (25%)	42 (15%)	0	5
1	C	286/362 (79%)	173 (60%)	68 (24%)	45 (16%)	0	5
2	D	28/46 (61%)	25 (89%)	3 (11%)	0	100	100
2	E	28/46 (61%)	25 (89%)	3 (11%)	0	100	100
All	All	894/1178 (76%)	554 (62%)	212 (24%)	128 (14%)	0	6

5 of 128 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	35	SER
1	A	136	ILE
1	A	142	PHE
1	A	175	ARG
1	A	249	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	258/317 (81%)	207 (80%)	51 (20%)	1	13
1	B	252/317 (80%)	197 (78%)	55 (22%)	1	10
1	C	262/317 (83%)	207 (79%)	55 (21%)	1	11
2	D	26/40 (65%)	26 (100%)	0	100	100
2	E	26/40 (65%)	26 (100%)	0	100	100
All	All	824/1031 (80%)	663 (80%)	161 (20%)	1	14

5 of 161 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	231	THR
1	B	285	CYS
1	C	286	LYS
1	B	236	THR
1	B	246	PHE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 14 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	267	ASN
1	B	289	GLN
1	C	229	GLN
1	B	228	GLN
1	C	228	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 carbohydrates in this entry.

5.6 Ligand geometry

Of 8 ligands modelled in this entry, 5 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$
3	ADP	A	401	4	22,29,29	1.48	2 (9%)	27,45,45	1.81	8 (29%)
3	ADP	B	401	4	22,29,29	1.09	3 (13%)	27,45,45	1.84	8 (29%)
3	ADP	C	401	4	22,29,29	1.36	4 (18%)	27,45,45	1.76	6 (22%)

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	ADP	A	401	4	-	0/12/32/32	0/3/3/3
3	ADP	B	401	4	-	0/12/32/32	0/3/3/3
3	ADP	C	401	4	-	0/12/32/32	0/3/3/3

The worst 5 of 9 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	401	ADP	PB-O3B	-2.75	1.44	1.54
3	C	401	ADP	PB-O3B	-2.69	1.45	1.54
3	B	401	ADP	PB-O3B	-2.43	1.46	1.54
3	B	401	ADP	PA-O2A	-2.03	1.46	1.54
3	B	401	ADP	O4'-C1'	2.07	1.43	1.41

The worst 5 of 22 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	401	ADP	C1'-N9-C4	-5.01	119.39	126.94
3	C	401	ADP	C1'-N9-C4	-4.78	119.73	126.94
3	B	401	ADP	C1'-N9-C4	-4.61	119.99	126.94
3	B	401	ADP	O2B-PB-O1B	-3.72	98.60	110.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	401	ADP	O4'-C1'-N9	-3.62	100.51	108.10

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

3 monomers are involved in 29 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	401	ADP	11	0
3	B	401	ADP	8	0
3	C	401	ADP	10	0

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	287/362 (79%)	0.38	24 (8%) 14 11	171, 343, 482, 756	0
1	B	280/362 (77%)	0.38	21 (7%) 17 14	141, 326, 486, 645	0
1	C	292/362 (80%)	0.48	20 (6%) 20 15	114, 314, 495, 758	0
2	D	30/46 (65%)	0.64	3 (10%) 9 8	303, 376, 577, 705	0
2	E	30/46 (65%)	-0.15	0 100 100	316, 405, 524, 567	0
All	All	919/1178 (78%)	0.40	68 (7%) 17 14	114, 334, 507, 758	0

The worst 5 of 68 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	318	ALA	11.4
1	C	317	CYS	7.1
1	B	4	THR	7.1
1	C	351	GLU	6.3
1	B	25	GLY	6.2

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. LLDF column lists the quality of electron

density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
3	ADP	C	401	27/27	0.70	0.48	-0.30	320,325,329,332	0
3	ADP	B	401	27/27	0.83	0.45	-0.34	333,342,351,356	0
3	ADP	A	401	27/27	0.74	0.37	-0.65	322,328,331,331	0
5	ZN	B	363	1/1	0.88	0.14	-	368,368,368,368	0
4	MG	C	402	1/1	0.92	0.37	-	282,282,282,282	0
4	MG	A	402	1/1	0.71	0.27	-	297,297,297,297	0
4	MG	B	402	1/1	0.93	0.33	-	246,246,246,246	0
5	ZN	C	363	1/1	0.91	0.08	-	299,299,299,299	1

6.5 Other polymers

There are no such residues in this entry.