



Full wwPDB X-ray Structure Validation Report i

Feb 6, 2024 – 09:04 AM EST

PDB ID : 2H2N
Title : Crystal structure of human soluble calcium-activated nucleotidase (SCAN) with calcium ion
Authors : Yang, M.; Horii, K.; Herr, A.B.; Kirley, T.L.
Deposited on : 2006-05-19
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 i 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](#) i) 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 : 2.36
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) : 2.36

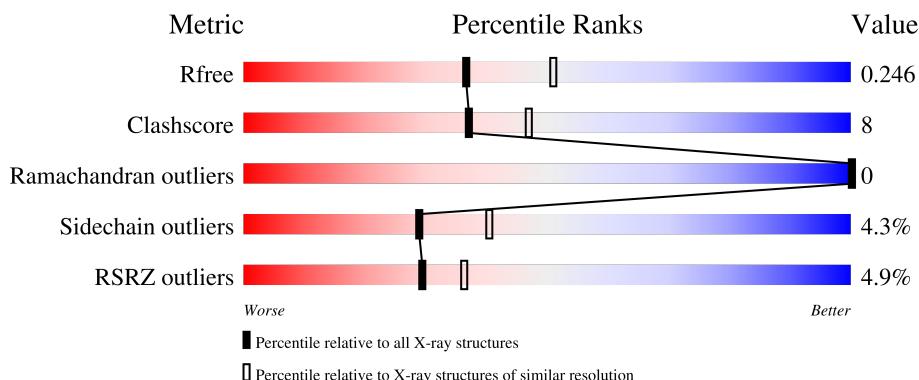
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

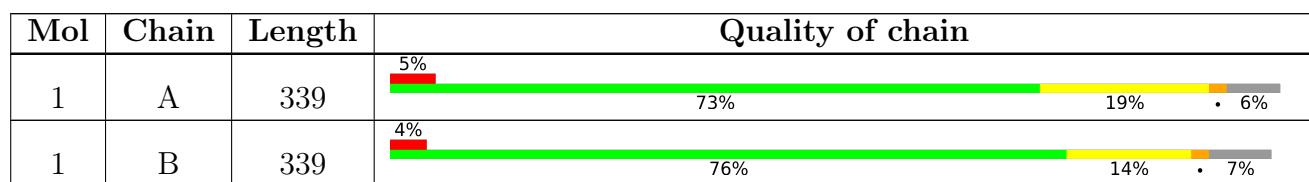
The reported resolution of this entry is 2.30 Å.

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}	130704	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (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.



2 Entry composition [\(i\)](#)

There are 4 unique types of molecules in this entry. The entry contains 5232 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 Soluble calcium-activated nucleotidase 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	317	2510	1599	421	487	3	0	0	0
1	B	315	2488	1584	417	484	3	0	0	0

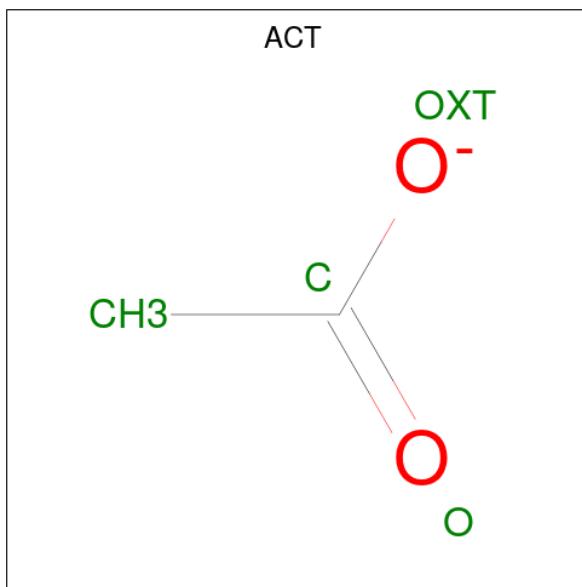
There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-7	GLY	-	cloning artifact	UNP Q8WVQ1
A	-6	SER	-	cloning artifact	UNP Q8WVQ1
A	-5	HIS	-	cloning artifact	UNP Q8WVQ1
A	-4	MET	-	cloning artifact	UNP Q8WVQ1
A	-3	ALA	-	cloning artifact	UNP Q8WVQ1
A	-2	SER	-	cloning artifact	UNP Q8WVQ1
B	-7	GLY	-	cloning artifact	UNP Q8WVQ1
B	-6	SER	-	cloning artifact	UNP Q8WVQ1
B	-5	HIS	-	cloning artifact	UNP Q8WVQ1
B	-4	MET	-	cloning artifact	UNP Q8WVQ1
B	-3	ALA	-	cloning artifact	UNP Q8WVQ1
B	-2	SER	-	cloning artifact	UNP Q8WVQ1

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

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

- Molecule 3 is ACETATE ION (three-letter code: ACT) (formula: C₂H₃O₂).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 4 2 2	0	0

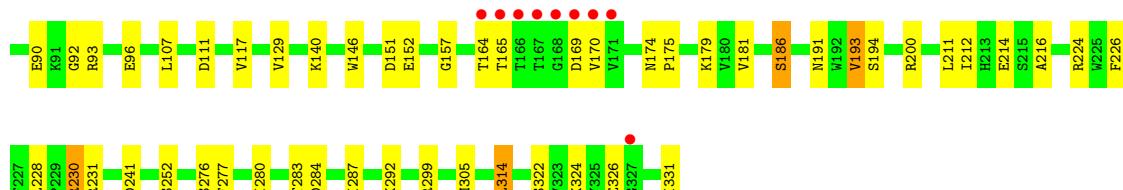
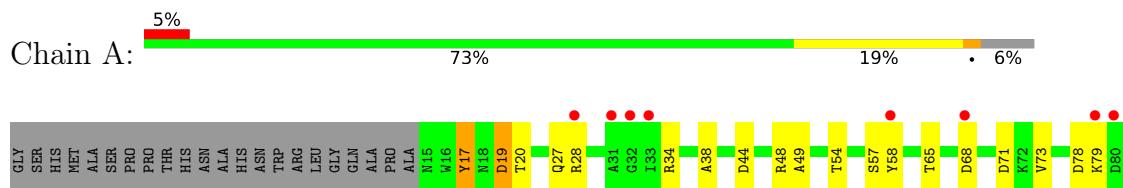
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	111	Total O 111 111	0	0
4	B	117	Total O 117 117	0	0

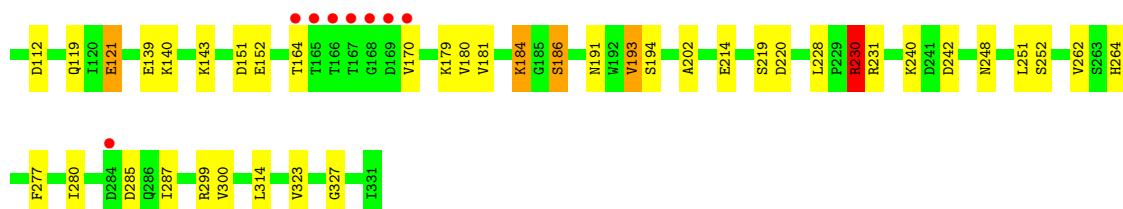
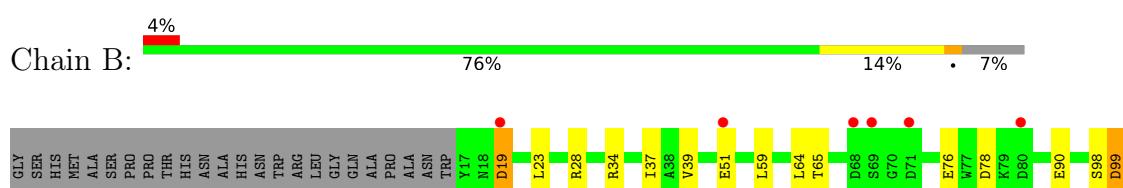
3 Residue-property plots [\(i\)](#)

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: Soluble calcium-activated nucleotidase 1



- #### • Molecule 1: Soluble calcium-activated nucleotidase 1



4 Data and refinement statistics i

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	43.09 Å 52.37 Å 77.43 Å 75.06° 74.52° 79.47°	Depositor
Resolution (Å)	31.08 – 2.30 31.08 – 2.30	Depositor EDS
% Data completeness (in resolution range)	100.0 (31.08-2.30) 99.7 (31.08-2.30)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ ¹	5.85 (at 2.29 Å)	Xtriage
Refinement program	REFMAC	Depositor
R , R_{free}	0.168 , 0.249 0.168 , 0.246	Depositor DCC
R_{free} test set	1395 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	32.3	Xtriage
Anisotropy	0.084	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 46.8	EDS
L-test for twinning ²	$< L > = 0.52$, $< L^2 > = 0.35$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5232	wwPDB-VP
Average B, all atoms (Å ²)	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.31% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $< |L| >$, $< L^2 >$ 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: ACT, CA

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	1.23	4/2574 (0.2%)	1.05	10/3496 (0.3%)
1	B	1.31	5/2550 (0.2%)	1.07	8/3462 (0.2%)
All	All	1.27	9/5124 (0.2%)	1.06	18/6958 (0.3%)

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	193	VAL	CB-CG1	7.27	1.68	1.52
1	A	193	VAL	CB-CG1	6.60	1.66	1.52
1	B	194	SER	CB-OG	-6.08	1.34	1.42
1	A	151	ASP	CB-CG	5.42	1.63	1.51
1	B	180	VAL	CB-CG2	5.39	1.64	1.52
1	A	17	TYR	CD2-CE2	5.36	1.47	1.39
1	B	90	GLU	CD-OE1	5.30	1.31	1.25
1	B	152	GLU	CG-CD	5.21	1.59	1.51
1	A	92	GLY	N-CA	5.15	1.53	1.46

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	299	ARG	NE-CZ-NH1	7.03	123.82	120.30
1	A	314	LEU	CA-CB-CG	7.01	131.43	115.30
1	A	19	ASP	CB-CG-OD1	-5.92	112.98	118.30
1	A	211	LEU	CA-CB-CG	5.92	128.90	115.30
1	A	314	LEU	CB-CG-CD1	-5.90	100.96	111.00
1	B	19	ASP	CB-CA-C	-5.80	98.80	110.40
1	A	151	ASP	CB-CG-OD2	5.75	123.47	118.30
1	B	99	ASP	CB-CG-OD1	5.67	123.40	118.30
1	A	200	ARG	NE-CZ-NH2	-5.66	117.47	120.30
1	B	59	LEU	CB-CG-CD2	-5.64	101.42	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	314	LEU	CB-CG-CD1	-5.60	101.48	111.00
1	A	78	ASP	CB-CG-OD1	5.46	123.21	118.30
1	A	107	LEU	CB-CG-CD2	-5.44	101.75	111.00
1	B	78	ASP	CB-CG-OD1	5.24	123.02	118.30
1	B	220	ASP	CB-CG-OD2	-5.14	113.67	118.30
1	B	230	ARG	NE-CZ-NH1	-5.07	117.77	120.30
1	A	111	ASP	CB-CG-OD1	5.01	122.81	118.30
1	A	140	LYS	CD-CE-NZ	-5.00	100.20	111.70

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 MolProbit. 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	2510	0	2418	39	0
1	B	2488	0	2402	38	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	4	0	3	0	0
4	A	111	0	0	3	0
4	B	117	0	0	7	0
All	All	5232	0	4823	77	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 8.

All (77) 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:230:ARG:HH11	1:A:230:ARG:HG3	1.04	1.13
1:B:230:ARG:HG3	1:B:230:ARG:HH11	0.87	1.03
1:B:230:ARG:HH11	1:B:230:ARG:CG	1.75	0.99
1:B:230:ARG:HG3	1:B:230:ARG:NH1	1.69	0.95
1:B:251:LEU:HD23	1:B:262:VAL:HG22	1.53	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:230:ARG:HH11	1:A:230:ARG:CG	1.87	0.84
1:A:28:ARG:NH2	1:A:68:ASP:OD1	2.10	0.83
1:A:230:ARG:HG3	1:A:230:ARG:NH1	1.85	0.81
1:A:280:ILE:HD12	1:A:287:ILE:HG22	1.70	0.74
1:B:34:ARG:HG3	1:B:65:THR:HG22	1.72	0.70
1:B:164:THR:HG22	1:B:170:VAL:HA	1.71	0.70
1:A:90:GLU:OE1	4:A:1112:HOH:O	2.11	0.68
1:A:280:ILE:HD12	1:A:287:ILE:CG2	2.24	0.66
1:A:164:THR:HG22	1:A:170:VAL:HA	1.80	0.63
1:A:38:ALA:HB2	1:A:331:ILE:HD13	1.82	0.62
1:B:240:LYS:CB	4:B:1116:HOH:O	2.49	0.61
1:A:299:ARG:HB3	4:A:1111:HOH:O	2.00	0.60
1:A:165:THR:OG1	1:A:169:ASP:HB3	2.03	0.58
1:A:34:ARG:HG3	1:A:65:THR:HG22	1.85	0.58
1:B:230:ARG:CG	1:B:230:ARG:NH1	2.44	0.58
1:A:224:ARG:HB2	1:A:226:PHE:CE2	2.39	0.57
1:B:65:THR:HG23	4:B:1010:HOH:O	2.06	0.56
1:B:240:LYS:HB3	4:B:1116:HOH:O	2.06	0.55
1:A:230:ARG:CG	1:A:230:ARG:NH1	2.53	0.55
1:B:181:VAL:HA	1:B:186:SER:O	2.06	0.54
1:B:300:VAL:CG1	1:B:323:VAL:HA	2.39	0.53
1:A:164:THR:HG22	1:A:170:VAL:HG22	1.91	0.52
1:B:37:ILE:HD13	1:B:64:LEU:HB2	1.89	0.52
1:A:17:TYR:CD2	1:A:152:GLU:HG2	2.45	0.52
1:A:191:ASN:OD1	1:A:193:VAL:HG23	2.09	0.52
1:A:93:ARG:NH2	1:A:96:GLU:OE1	2.41	0.51
1:A:19:ASP:O	1:A:20:THR:C	2.46	0.51
1:A:93:ARG:HH21	1:A:96:GLU:CD	2.13	0.51
1:B:184:LYS:HB2	4:B:1042:HOH:O	2.11	0.51
1:B:248:ASN:OD1	1:B:264:HIS:HD2	1.95	0.49
1:A:181:VAL:HA	1:A:186:SER:O	2.12	0.49
1:B:119:GLN:CD	1:B:121:GLU:OE1	2.51	0.49
1:A:73:VAL:HG23	1:A:314:LEU:HD12	1.95	0.48
1:A:228:LEU:HD12	1:A:277:PHE:CG	2.48	0.48
1:A:283:THR:O	1:A:284:ASP:HB2	2.14	0.48
1:B:34:ARG:HG3	1:B:65:THR:CG2	2.42	0.48
1:B:231:ARG:HG3	1:B:242:ASP:OD1	2.14	0.48
1:A:44:ASP:OD2	1:A:324:LYS:NZ	2.43	0.48
1:B:184:LYS:HE3	1:B:184:LYS:CA	2.44	0.47
1:B:39:VAL:HA	1:B:327:GLY:O	2.13	0.47
1:A:48:ARG:HG3	4:A:1077:HOH:O	2.13	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:202:ALA:O	1:B:262:VAL:HG21	2.15	0.46
1:A:292:LYS:HG3	1:A:305:MET:CE	2.46	0.46
1:A:228:LEU:HD12	1:A:277:PHE:CD2	2.51	0.45
1:A:57:SER:OG	1:A:58:TYR:N	2.50	0.45
1:B:230:ARG:HD3	4:B:1095:HOH:O	2.15	0.45
1:A:214:GLU:OE1	1:A:230:ARG:HD2	2.17	0.45
1:B:280:ILE:HD12	1:B:287:ILE:CG2	2.46	0.45
1:A:212:ILE:HB	1:A:231:ARG:HB2	1.98	0.45
1:B:184:LYS:HE3	1:B:184:LYS:HA	1.98	0.45
1:B:240:LYS:HB3	1:B:240:LYS:HE2	1.77	0.45
1:B:139:GLU:OE1	4:B:1080:HOH:O	2.21	0.45
1:B:191:ASN:OD1	1:B:193:VAL:HG23	2.16	0.45
1:B:228:LEU:HD12	1:B:277:PHE:CD2	2.52	0.45
1:A:34:ARG:HG3	1:A:65:THR:CG2	2.46	0.44
1:B:214:GLU:CD	1:B:230:ARG:HD2	2.38	0.44
1:A:276:SER:HB2	1:A:326:GLU:O	2.18	0.44
1:B:119:GLN:NE2	1:B:121:GLU:OE1	2.50	0.44
1:B:300:VAL:HG12	1:B:323:VAL:HA	1.98	0.44
1:B:98:SER:HG	1:B:112:ASP:HB3	1.83	0.43
1:A:174:ASN:N	1:A:175:PRO:CD	2.80	0.43
1:B:219:SER:OG	1:B:285:ASP:OD2	2.17	0.43
1:B:280:ILE:HD12	1:B:287:ILE:HG22	2.00	0.43
1:B:23:LEU:HD23	1:B:23:LEU:HA	1.73	0.43
1:A:117:VAL:HB	1:A:129:VAL:HG22	2.01	0.42
1:B:151:ASP:HB3	4:B:1075:HOH:O	2.19	0.41
1:A:164:THR:CG2	1:A:170:VAL:HG22	2.49	0.41
1:A:146:TRP:CE2	1:A:157:GLY:HA3	2.56	0.41
1:A:146:TRP:CE3	1:A:216:ALA:HB3	2.56	0.41
1:B:184:LYS:HE2	1:B:184:LYS:HB3	1.91	0.40
1:A:49:ALA:HB3	1:A:54:THR:HB	2.03	0.40
1:B:251:LEU:CD2	1:B:262:VAL:HG22	2.37	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	315/339 (93%)	301 (96%)	14 (4%)	0	100 100
1	B	313/339 (92%)	303 (97%)	10 (3%)	0	100 100
All	All	628/678 (93%)	604 (96%)	24 (4%)	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	267/283 (94%)	257 (96%)	10 (4%)	34 48
1	B	265/283 (94%)	252 (95%)	13 (5%)	25 35
All	All	532/566 (94%)	509 (96%)	23 (4%)	29 40

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	27	GLN
1	A	71	ASP
1	A	79	LYS
1	A	179	LYS
1	A	186	SER
1	A	194	SER
1	A	230	ARG
1	A	241	ASP
1	A	252	SER
1	A	322	SER
1	B	19	ASP
1	B	28	ARG
1	B	51	GLU
1	B	76	GLU
1	B	99	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	121	GLU
1	B	140	LYS
1	B	143	LYS
1	B	179	LYS
1	B	184	LYS
1	B	186	SER
1	B	230	ARG
1	B	252	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	27	GLN
1	B	81	HIS
1	B	264	HIS

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 [\(i\)](#)

Of 3 ligands modelled in this entry, 2 are monoatomic - leaving 1 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	ACT	A	1002	-	3,3,3	1.24	0	3,3,3	1.81	1 (33%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1002	ACT	OXT-C-CH3	2.43	125.22	115.18

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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	317/339 (93%)	0.20	17 (5%) 25 32	18, 30, 51, 65	0
1	B	315/339 (92%)	0.11	14 (4%) 34 41	15, 28, 48, 61	0
All	All	632/678 (93%)	0.15	31 (4%) 29 36	15, 28, 50, 65	0

All (31) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	165	THR	5.8
1	A	165	THR	5.7
1	B	166	THR	5.7
1	A	169	ASP	5.6
1	A	170	VAL	5.4
1	B	167	THR	5.3
1	B	169	ASP	5.0
1	B	168	GLY	4.7
1	A	167	THR	4.5
1	A	166	THR	4.2
1	A	31	ALA	4.2
1	A	168	GLY	4.1
1	A	164	THR	3.8
1	B	80	ASP	3.3
1	B	68	ASP	3.2
1	B	170	VAL	3.0
1	B	164	THR	3.0
1	A	32	GLY	2.9
1	A	28	ARG	2.7
1	A	33	ILE	2.7
1	B	19	ASP	2.7
1	A	171	VAL	2.5
1	A	80	ASP	2.5
1	B	284	ASP	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	B	71	ASP	2.3
1	B	51	GLU	2.2
1	A	58	TYR	2.2
1	A	327	GLY	2.1
1	B	69	SER	2.1
1	A	79	LYS	2.0
1	A	68	ASP	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	ACT	A	1002	4/4	0.76	0.27	38,39,40,41	0
2	CA	A	1000	1/1	0.99	0.08	29,29,29,29	0
2	CA	B	1001	1/1	1.00	0.11	19,19,19,19	0

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.