



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 8, 2026 – 11:00 AM UTC

PDB ID : 6Y9U / pdb_00006y9u
Title : Crystal structure of PnrA from *S. pneumoniae* in complex with adenosine
Authors : Batuecas, M.T.; Hermoso, J.A.
Deposited on : 2020-03-10
Resolution : 2.50 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

<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
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

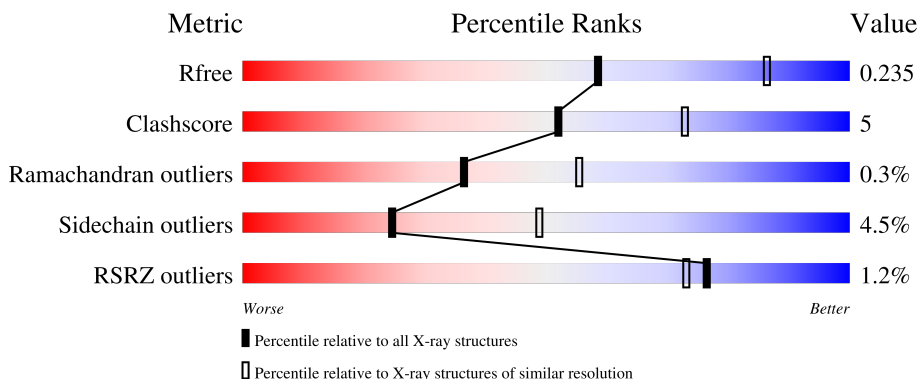
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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	5829 (2.50-2.50)
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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	332	91% 8% .
1	B	332	84% 14% .
1	C	332	83% 15% .
1	D	332	88% 11% ..

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 10322 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 Lipoprotein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	332	Total	C	N	O	S	0	0	0
			2482	1551	424	506	1			
1	B	331	Total	C	N	O	S	0	1	0
			2483	1552	423	507	1			
1	C	331	Total	C	N	O	S	0	2	0
			2491	1557	427	506	1			
1	D	330	Total	C	N	O	S	0	0	0
			2472	1546	422	503	1			

There are 84 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	2	GLY	-	expression tag	UNP A0A0H2UPF3
A	3	SER	-	expression tag	UNP A0A0H2UPF3
A	4	SER	-	expression tag	UNP A0A0H2UPF3
A	5	HIS	-	expression tag	UNP A0A0H2UPF3
A	6	HIS	-	expression tag	UNP A0A0H2UPF3
A	7	HIS	-	expression tag	UNP A0A0H2UPF3
A	8	HIS	-	expression tag	UNP A0A0H2UPF3
A	9	HIS	-	expression tag	UNP A0A0H2UPF3
A	10	HIS	-	expression tag	UNP A0A0H2UPF3
A	11	MET	-	expression tag	UNP A0A0H2UPF3
A	12	SER	-	expression tag	UNP A0A0H2UPF3
A	13	GLY	-	expression tag	UNP A0A0H2UPF3
A	14	GLU	-	expression tag	UNP A0A0H2UPF3
A	15	ASN	-	expression tag	UNP A0A0H2UPF3
A	16	LEU	-	expression tag	UNP A0A0H2UPF3
A	17	TYR	-	expression tag	UNP A0A0H2UPF3
A	18	PHE	-	expression tag	UNP A0A0H2UPF3
A	19	GLN	-	expression tag	UNP A0A0H2UPF3
A	20	GLY	-	expression tag	UNP A0A0H2UPF3
A	21	ALA	-	expression tag	UNP A0A0H2UPF3
A	22	SER	-	expression tag	UNP A0A0H2UPF3

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
B	2	GLY	-	expression tag	UNP A0A0H2UPF3
B	3	SER	-	expression tag	UNP A0A0H2UPF3
B	4	SER	-	expression tag	UNP A0A0H2UPF3
B	5	HIS	-	expression tag	UNP A0A0H2UPF3
B	6	HIS	-	expression tag	UNP A0A0H2UPF3
B	7	HIS	-	expression tag	UNP A0A0H2UPF3
B	8	HIS	-	expression tag	UNP A0A0H2UPF3
B	9	HIS	-	expression tag	UNP A0A0H2UPF3
B	10	HIS	-	expression tag	UNP A0A0H2UPF3
B	11	MET	-	expression tag	UNP A0A0H2UPF3
B	12	SER	-	expression tag	UNP A0A0H2UPF3
B	13	GLY	-	expression tag	UNP A0A0H2UPF3
B	14	GLU	-	expression tag	UNP A0A0H2UPF3
B	15	ASN	-	expression tag	UNP A0A0H2UPF3
B	16	LEU	-	expression tag	UNP A0A0H2UPF3
B	17	TYR	-	expression tag	UNP A0A0H2UPF3
B	18	PHE	-	expression tag	UNP A0A0H2UPF3
B	19	GLN	-	expression tag	UNP A0A0H2UPF3
B	20	GLY	-	expression tag	UNP A0A0H2UPF3
B	21	ALA	-	expression tag	UNP A0A0H2UPF3
B	22	SER	-	expression tag	UNP A0A0H2UPF3
C	2	GLY	-	expression tag	UNP A0A0H2UPF3
C	3	SER	-	expression tag	UNP A0A0H2UPF3
C	4	SER	-	expression tag	UNP A0A0H2UPF3
C	5	HIS	-	expression tag	UNP A0A0H2UPF3
C	6	HIS	-	expression tag	UNP A0A0H2UPF3
C	7	HIS	-	expression tag	UNP A0A0H2UPF3
C	8	HIS	-	expression tag	UNP A0A0H2UPF3
C	9	HIS	-	expression tag	UNP A0A0H2UPF3
C	10	HIS	-	expression tag	UNP A0A0H2UPF3
C	11	MET	-	expression tag	UNP A0A0H2UPF3
C	12	SER	-	expression tag	UNP A0A0H2UPF3
C	13	GLY	-	expression tag	UNP A0A0H2UPF3
C	14	GLU	-	expression tag	UNP A0A0H2UPF3
C	15	ASN	-	expression tag	UNP A0A0H2UPF3
C	16	LEU	-	expression tag	UNP A0A0H2UPF3
C	17	TYR	-	expression tag	UNP A0A0H2UPF3
C	18	PHE	-	expression tag	UNP A0A0H2UPF3
C	19	GLN	-	expression tag	UNP A0A0H2UPF3
C	20	GLY	-	expression tag	UNP A0A0H2UPF3
C	21	ALA	-	expression tag	UNP A0A0H2UPF3
C	22	SER	-	expression tag	UNP A0A0H2UPF3

Continued on next page...

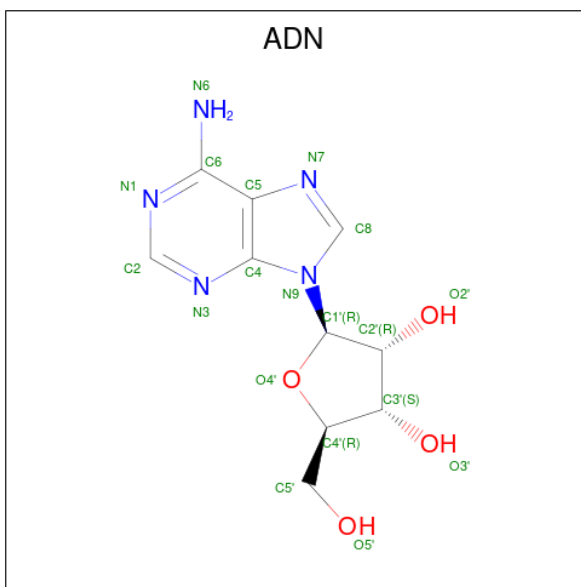
Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
D	2	GLY	-	expression tag	UNP A0A0H2UPF3
D	3	SER	-	expression tag	UNP A0A0H2UPF3
D	4	SER	-	expression tag	UNP A0A0H2UPF3
D	5	HIS	-	expression tag	UNP A0A0H2UPF3
D	6	HIS	-	expression tag	UNP A0A0H2UPF3
D	7	HIS	-	expression tag	UNP A0A0H2UPF3
D	8	HIS	-	expression tag	UNP A0A0H2UPF3
D	9	HIS	-	expression tag	UNP A0A0H2UPF3
D	10	HIS	-	expression tag	UNP A0A0H2UPF3
D	11	MET	-	expression tag	UNP A0A0H2UPF3
D	12	SER	-	expression tag	UNP A0A0H2UPF3
D	13	GLY	-	expression tag	UNP A0A0H2UPF3
D	14	GLU	-	expression tag	UNP A0A0H2UPF3
D	15	ASN	-	expression tag	UNP A0A0H2UPF3
D	16	LEU	-	expression tag	UNP A0A0H2UPF3
D	17	TYR	-	expression tag	UNP A0A0H2UPF3
D	18	PHE	-	expression tag	UNP A0A0H2UPF3
D	19	GLN	-	expression tag	UNP A0A0H2UPF3
D	20	GLY	-	expression tag	UNP A0A0H2UPF3
D	21	ALA	-	expression tag	UNP A0A0H2UPF3
D	22	SER	-	expression tag	UNP A0A0H2UPF3

- Molecule 2 is NICKEL (II) ION (CCD ID: NI) (formula: Ni).

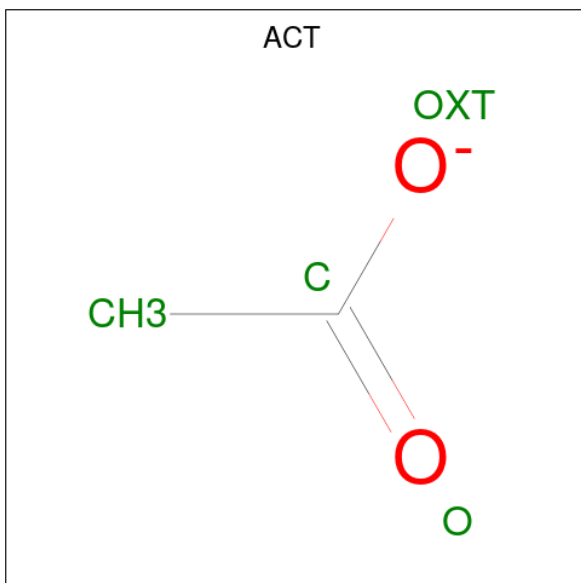
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	2	Total Ni 2 2	0	0
2	B	1	Total Ni 1 1	0	0
2	C	2	Total Ni 2 2	0	0
2	D	1	Total Ni 1 1	0	0

- Molecule 3 is ADENOSINE (CCD ID: ADN) (formula: C₁₀H₁₃N₅O₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			19	10	5	4		
3	B	1	Total	C	N	O	0	0
			19	10	5	4		
3	C	1	Total	C	N	O	0	0
			19	10	5	4		
3	D	1	Total	C	N	O	0	0
			19	10	5	4		

- Molecule 4 is ACETATE ION (CCD ID: ACT) (formula: $C_2H_3O_2$).



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

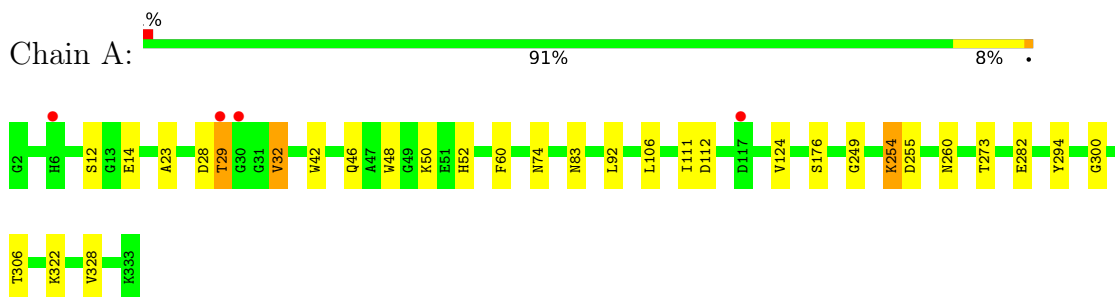
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	101	Total	O	0	0
			101	101		
5	B	90	Total	O	0	0
			90	90		
5	C	84	Total	O	0	0
			84	84		
5	D	33	Total	O	0	0
			33	33		

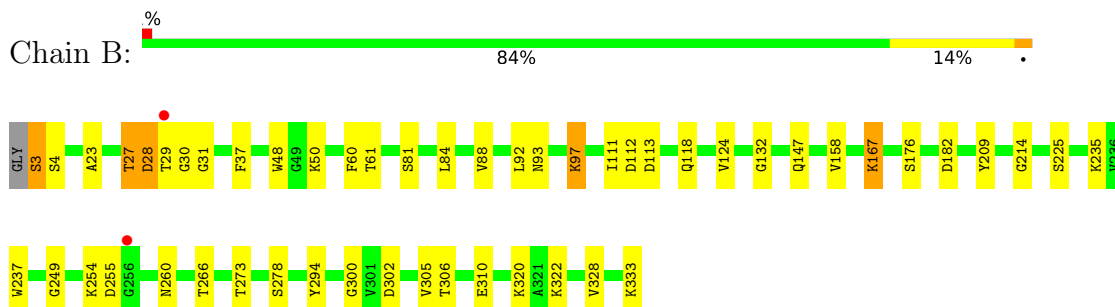
3 Residue-property plots [i](#)

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.

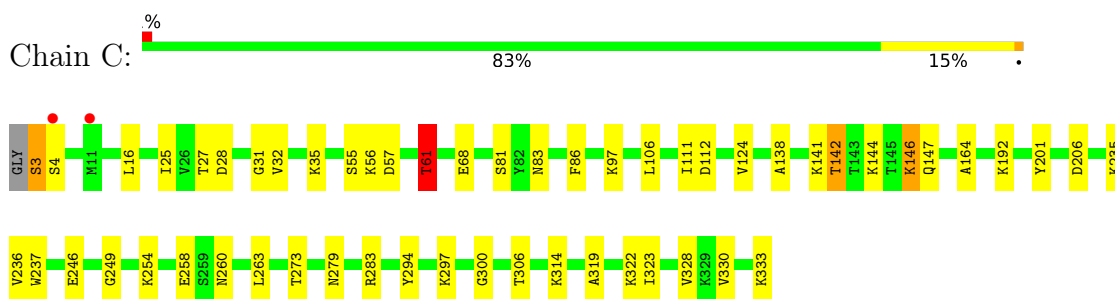
- Molecule 1: Lipoprotein



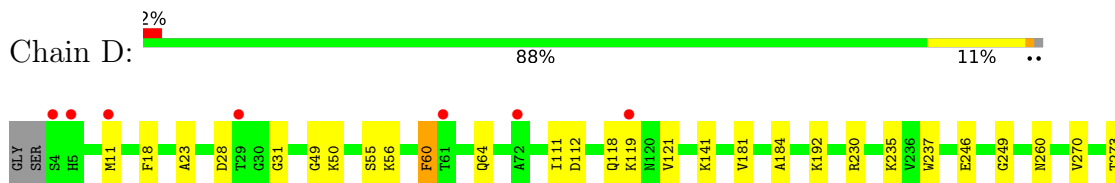
- Molecule 1: Lipoprotein



- Molecule 1: Lipoprotein



- Molecule 1: Lipoprotein





4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	78.22Å 304.96Å 128.56Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.06 – 2.50 49.06 – 2.50	Depositor EDS
% Data completeness (in resolution range)	99.9 (49.06-2.50) 99.9 (49.06-2.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.32 (at 2.51Å)	Xtriage
Refinement program	REFMAC 7.0.078	Depositor
R, R_{free}	0.190 , 0.230 0.191 , 0.235	Depositor DCC
R_{free} test set	2690 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	47.8	Xtriage
Anisotropy	0.077	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 33.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	10322	wwPDB-VP
Average B, all atoms (Å ²)	56.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 20.35 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 8.8599e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: ADN, NI, ACT

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	1.03	0/2524	1.46	6/3408 (0.2%)
1	B	1.02	0/2528	1.46	6/3414 (0.2%)
1	C	1.03	0/2539	1.44	2/3428 (0.1%)
1	D	1.04	1/2514 (0.0%)	1.47	3/3395 (0.1%)
All	All	1.03	1/10105 (0.0%)	1.46	17/13645 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	60	PHE	C-O	-10.99	1.11	1.23

The worst 5 of 17 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	60	PHE	CA-C-O	-8.08	109.31	120.21
1	C	61	THR	CB-CA-C	-7.67	96.58	111.78
1	D	56	LYS	CA-C-O	-7.40	112.63	120.92
1	C	31	GLY	CA-C-O	-7.23	116.43	122.29
1	D	18	PHE	CB-CA-C	6.59	121.12	109.72

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	2482	0	2398	17	0
1	B	2483	0	2399	27	0
1	C	2491	0	2414	35	0
1	D	2472	0	2390	21	0
2	A	2	0	0	0	0
2	B	1	0	0	0	0
2	C	2	0	0	0	0
2	D	1	0	0	0	0
3	A	19	0	13	1	0
3	B	19	0	13	2	0
3	C	19	0	13	2	0
3	D	19	0	13	3	0
4	C	4	0	3	1	0
5	A	101	0	0	3	0
5	B	90	0	0	12	0
5	C	84	0	0	5	0
5	D	33	0	0	1	0
All	All	10322	0	9656	101	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 5.

The worst 5 of 101 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)
4:C:504:ACT:H3	5:C:661:HOH:O	1.50	1.08
1:D:118:GLN:HB3	1:D:121:VAL:HG22	1.48	0.95
1:B:118:GLN:HG3	5:B:673:HOH:O	1.65	0.94
1:B:209:TYR:OH	5:B:601:HOH:O	1.91	0.89
1:A:52:HIS:CE1	5:A:601:HOH:O	2.25	0.88

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	330/332 (99%)	309 (94%)	19 (6%)	2 (1%)	21	38
1	B	330/332 (99%)	311 (94%)	17 (5%)	2 (1%)	21	38
1	C	331/332 (100%)	314 (95%)	17 (5%)	0	100	100
1	D	328/332 (99%)	311 (95%)	17 (5%)	0	100	100
All	All	1319/1328 (99%)	1245 (94%)	70 (5%)	4 (0%)	36	55

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	306	THR
1	B	306	THR
1	A	255	ASP
1	B	255	ASP

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	255/255 (100%)	249 (98%)	6 (2%)	43	70
1	B	256/255 (100%)	242 (94%)	14 (6%)	19	40
1	C	257/255 (101%)	242 (94%)	15 (6%)	18	38
1	D	254/255 (100%)	243 (96%)	11 (4%)	26	51
All	All	1022/1020 (100%)	976 (96%)	46 (4%)	24	49

5 of 46 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	142	THR
1	D	11	MET
1	C	144	LYS
1	C	254	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	55	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 12 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	58	ASN
1	D	64	GLN
1	D	290	GLN
1	D	118	GLN
1	B	5	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 11 ligands modelled in this entry, 6 are monoatomic - leaving 5 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	$\# Z > 2$
4	ACT	C	504	-	3,3,3	0.99	0	3,3,3	0.92	0
3	ADN	D	502	-	21,21,21	0.27	0	31,31,31	0.43	0
3	ADN	B	502	-	21,21,21	0.33	0	31,31,31	0.51	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	ADN	C	503	-	21,21,21	0.34	0	31,31,31	0.54	0
3	ADN	A	503	-	21,21,21	0.37	0	31,31,31	0.53	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	ADN	C	503	-	-	0/6/22/22	0/3/3/3
3	ADN	D	502	-	-	0/6/22/22	0/3/3/3
3	ADN	A	503	-	-	0/6/22/22	0/3/3/3
3	ADN	B	502	-	-	0/6/22/22	0/3/3/3

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

5 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	C	504	ACT	1	0
3	D	502	ADN	3	0
3	B	502	ADN	2	0
3	C	503	ADN	2	0
3	A	503	ADN	1	0

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

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	332/332 (100%)	-0.17	4 (1%) 76 73	28, 47, 77, 118	0
1	B	331/332 (99%)	-0.20	2 (0%) 85 83	27, 46, 83, 95	1 (0%)
1	C	331/332 (99%)	0.01	2 (0%) 85 83	23, 54, 93, 119	2 (0%)
1	D	330/332 (99%)	0.44	8 (2%) 59 55	30, 69, 102, 112	0
All	All	1324/1328 (99%)	0.02	16 (1%) 76 73	23, 53, 92, 119	3 (0%)

The worst 5 of 16 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	4	SER	3.4
1	D	61	THR	2.9
1	C	11	MET	2.7
1	D	5	HIS	2.6
1	A	29	THR	2.6

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($\text{\AA}^2$)	Q<0.9
4	ACT	C	504	4/4	0.68	0.19	69,73,74,79	0
2	NI	C	502	1/1	0.91	0.13	44,44,44,44	0
3	ADN	B	502	19/19	0.97	0.05	31,34,38,38	0
3	ADN	C	503	19/19	0.97	0.05	36,39,44,45	0
3	ADN	D	502	19/19	0.97	0.06	50,53,57,57	0
3	ADN	A	503	19/19	0.97	0.05	27,35,39,40	0
2	NI	A	502	1/1	1.00	0.01	47,47,47,47	0
2	NI	B	501	1/1	1.00	0.02	31,31,31,31	0
2	NI	C	501	1/1	1.00	0.01	28,28,28,28	0
2	NI	A	501	1/1	1.00	0.01	43,43,43,43	0
2	NI	D	501	1/1	1.00	0.03	36,36,36,36	0

6.5 Other polymers [i](#)

There are no such residues in this entry.