



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 7, 2016 – 05:29 PM EST

PDB ID : 5JRE
Title : Crystal structure of NeC3PO in complex with ssDNA.
Authors : Gan, J.; Zhang, J.
Deposited on : 2016-05-06
Resolution : 2.10 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

<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 : 1.7.1 (RC1), CSD as537be (2016)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20028320
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) : rb-20028320

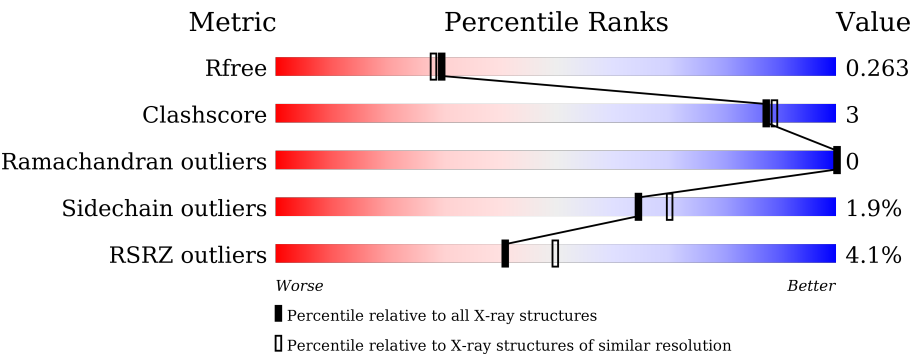
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	3939 (2.10-2.10)
Clashscore	102246	4460 (2.10-2.10)
Ramachandran outliers	100387	4413 (2.10-2.10)
Sidechain outliers	100360	4414 (2.10-2.10)
RSRZ outliers	91569	3948 (2.10-2.10)

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	219	<div><div>5%</div><div><div></div><div>84%</div><div>•</div><div>15%</div></div></div>
1	B	219	<div><div>3%</div><div><div></div><div>79%</div><div>•</div><div>16%</div></div></div>
1	C	219	<div><div>2%</div><div><div></div><div>80%</div><div>5%</div><div>15%</div></div></div>
1	D	219	<div><div>2%</div><div><div></div><div>76%</div><div>7%</div><div>•</div><div>16%</div></div></div>
1	E	219	<div><div>4%</div><div><div></div><div>83%</div><div>•</div><div>15%</div></div></div>
1	F	219	<div><div>5%</div><div><div></div><div>78%</div><div>5%</div><div>•</div><div>16%</div></div></div>

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Mol	Chain	Length	Quality of chain
1	G	219	
1	H	219	
2	I	10	
2	J	10	

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	ADE	D	1001	-	-	-	X
3	ADE	H	1001	-	-	-	X
4	ADZ	E	1001	-	-	-	X
4	ADZ	E	1002	-	-	-	X

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 12809 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 NEQ131.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	186	Total	C	N	O	S	0	0	0
			1522	993	235	290	4			
1	B	184	Total	C	N	O	S	0	0	0
			1514	988	233	289	4			
1	C	186	Total	C	N	O	S	0	0	0
			1529	998	236	291	4			
1	D	185	Total	C	N	O	S	0	0	0
			1531	998	242	287	4			
1	E	186	Total	C	N	O	S	0	0	0
			1537	1001	242	290	4			
1	F	184	Total	C	N	O	S	0	0	0
			1527	996	241	286	4			
1	G	186	Total	C	N	O	S	0	0	0
			1551	1007	243	297	4			
1	H	185	Total	C	N	O	S	0	0	0
			1536	1001	241	290	4			

There are 272 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-33	MET	-	initiating methionine	UNP Q74ML9
A	-32	GLY	-	expression tag	UNP Q74ML9
A	-31	SER	-	expression tag	UNP Q74ML9
A	-30	SER	-	expression tag	UNP Q74ML9
A	-29	HIS	-	expression tag	UNP Q74ML9
A	-28	HIS	-	expression tag	UNP Q74ML9
A	-27	HIS	-	expression tag	UNP Q74ML9
A	-26	HIS	-	expression tag	UNP Q74ML9
A	-25	HIS	-	expression tag	UNP Q74ML9
A	-24	HIS	-	expression tag	UNP Q74ML9
A	-23	SER	-	expression tag	UNP Q74ML9
A	-22	SER	-	expression tag	UNP Q74ML9
A	-21	GLY	-	expression tag	UNP Q74ML9

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Chain	Residue	Modelled	Actual	Comment	Reference
A	-20	LEU	-	expression tag	UNP Q74ML9
A	-19	VAL	-	expression tag	UNP Q74ML9
A	-18	PRO	-	expression tag	UNP Q74ML9
A	-17	ARG	-	expression tag	UNP Q74ML9
A	-16	GLY	-	expression tag	UNP Q74ML9
A	-15	SER	-	expression tag	UNP Q74ML9
A	-14	HIS	-	expression tag	UNP Q74ML9
A	-13	MET	-	expression tag	UNP Q74ML9
A	-12	ALA	-	expression tag	UNP Q74ML9
A	-11	SER	-	expression tag	UNP Q74ML9
A	-10	MET	-	expression tag	UNP Q74ML9
A	-9	THR	-	expression tag	UNP Q74ML9
A	-8	GLY	-	expression tag	UNP Q74ML9
A	-7	GLY	-	expression tag	UNP Q74ML9
A	-6	GLN	-	expression tag	UNP Q74ML9
A	-5	GLN	-	expression tag	UNP Q74ML9
A	-4	MET	-	expression tag	UNP Q74ML9
A	-3	GLY	-	expression tag	UNP Q74ML9
A	-2	ARG	-	expression tag	UNP Q74ML9
A	-1	GLY	-	expression tag	UNP Q74ML9
A	0	SER	-	expression tag	UNP Q74ML9
B	-33	MET	-	initiating methionine	UNP Q74ML9
B	-32	GLY	-	expression tag	UNP Q74ML9
B	-31	SER	-	expression tag	UNP Q74ML9
B	-30	SER	-	expression tag	UNP Q74ML9
B	-29	HIS	-	expression tag	UNP Q74ML9
B	-28	HIS	-	expression tag	UNP Q74ML9
B	-27	HIS	-	expression tag	UNP Q74ML9
B	-26	HIS	-	expression tag	UNP Q74ML9
B	-25	HIS	-	expression tag	UNP Q74ML9
B	-24	HIS	-	expression tag	UNP Q74ML9
B	-23	SER	-	expression tag	UNP Q74ML9
B	-22	SER	-	expression tag	UNP Q74ML9
B	-21	GLY	-	expression tag	UNP Q74ML9
B	-20	LEU	-	expression tag	UNP Q74ML9
B	-19	VAL	-	expression tag	UNP Q74ML9
B	-18	PRO	-	expression tag	UNP Q74ML9
B	-17	ARG	-	expression tag	UNP Q74ML9
B	-16	GLY	-	expression tag	UNP Q74ML9
B	-15	SER	-	expression tag	UNP Q74ML9
B	-14	HIS	-	expression tag	UNP Q74ML9
B	-13	MET	-	expression tag	UNP Q74ML9

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-12	ALA	-	expression tag	UNP Q74ML9
B	-11	SER	-	expression tag	UNP Q74ML9
B	-10	MET	-	expression tag	UNP Q74ML9
B	-9	THR	-	expression tag	UNP Q74ML9
B	-8	GLY	-	expression tag	UNP Q74ML9
B	-7	GLY	-	expression tag	UNP Q74ML9
B	-6	GLN	-	expression tag	UNP Q74ML9
B	-5	GLN	-	expression tag	UNP Q74ML9
B	-4	MET	-	expression tag	UNP Q74ML9
B	-3	GLY	-	expression tag	UNP Q74ML9
B	-2	ARG	-	expression tag	UNP Q74ML9
B	-1	GLY	-	expression tag	UNP Q74ML9
B	0	SER	-	expression tag	UNP Q74ML9
C	-33	MET	-	initiating methionine	UNP Q74ML9
C	-32	GLY	-	expression tag	UNP Q74ML9
C	-31	SER	-	expression tag	UNP Q74ML9
C	-30	SER	-	expression tag	UNP Q74ML9
C	-29	HIS	-	expression tag	UNP Q74ML9
C	-28	HIS	-	expression tag	UNP Q74ML9
C	-27	HIS	-	expression tag	UNP Q74ML9
C	-26	HIS	-	expression tag	UNP Q74ML9
C	-25	HIS	-	expression tag	UNP Q74ML9
C	-24	HIS	-	expression tag	UNP Q74ML9
C	-23	SER	-	expression tag	UNP Q74ML9
C	-22	SER	-	expression tag	UNP Q74ML9
C	-21	GLY	-	expression tag	UNP Q74ML9
C	-20	LEU	-	expression tag	UNP Q74ML9
C	-19	VAL	-	expression tag	UNP Q74ML9
C	-18	PRO	-	expression tag	UNP Q74ML9
C	-17	ARG	-	expression tag	UNP Q74ML9
C	-16	GLY	-	expression tag	UNP Q74ML9
C	-15	SER	-	expression tag	UNP Q74ML9
C	-14	HIS	-	expression tag	UNP Q74ML9
C	-13	MET	-	expression tag	UNP Q74ML9
C	-12	ALA	-	expression tag	UNP Q74ML9
C	-11	SER	-	expression tag	UNP Q74ML9
C	-10	MET	-	expression tag	UNP Q74ML9
C	-9	THR	-	expression tag	UNP Q74ML9
C	-8	GLY	-	expression tag	UNP Q74ML9
C	-7	GLY	-	expression tag	UNP Q74ML9
C	-6	GLN	-	expression tag	UNP Q74ML9
C	-5	GLN	-	expression tag	UNP Q74ML9

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Chain	Residue	Modelled	Actual	Comment	Reference
C	-4	MET	-	expression tag	UNP Q74ML9
C	-3	GLY	-	expression tag	UNP Q74ML9
C	-2	ARG	-	expression tag	UNP Q74ML9
C	-1	GLY	-	expression tag	UNP Q74ML9
C	0	SER	-	expression tag	UNP Q74ML9
D	-33	MET	-	initiating methionine	UNP Q74ML9
D	-32	GLY	-	expression tag	UNP Q74ML9
D	-31	SER	-	expression tag	UNP Q74ML9
D	-30	SER	-	expression tag	UNP Q74ML9
D	-29	HIS	-	expression tag	UNP Q74ML9
D	-28	HIS	-	expression tag	UNP Q74ML9
D	-27	HIS	-	expression tag	UNP Q74ML9
D	-26	HIS	-	expression tag	UNP Q74ML9
D	-25	HIS	-	expression tag	UNP Q74ML9
D	-24	HIS	-	expression tag	UNP Q74ML9
D	-23	SER	-	expression tag	UNP Q74ML9
D	-22	SER	-	expression tag	UNP Q74ML9
D	-21	GLY	-	expression tag	UNP Q74ML9
D	-20	LEU	-	expression tag	UNP Q74ML9
D	-19	VAL	-	expression tag	UNP Q74ML9
D	-18	PRO	-	expression tag	UNP Q74ML9
D	-17	ARG	-	expression tag	UNP Q74ML9
D	-16	GLY	-	expression tag	UNP Q74ML9
D	-15	SER	-	expression tag	UNP Q74ML9
D	-14	HIS	-	expression tag	UNP Q74ML9
D	-13	MET	-	expression tag	UNP Q74ML9
D	-12	ALA	-	expression tag	UNP Q74ML9
D	-11	SER	-	expression tag	UNP Q74ML9
D	-10	MET	-	expression tag	UNP Q74ML9
D	-9	THR	-	expression tag	UNP Q74ML9
D	-8	GLY	-	expression tag	UNP Q74ML9
D	-7	GLY	-	expression tag	UNP Q74ML9
D	-6	GLN	-	expression tag	UNP Q74ML9
D	-5	GLN	-	expression tag	UNP Q74ML9
D	-4	MET	-	expression tag	UNP Q74ML9
D	-3	GLY	-	expression tag	UNP Q74ML9
D	-2	ARG	-	expression tag	UNP Q74ML9
D	-1	GLY	-	expression tag	UNP Q74ML9
D	0	SER	-	expression tag	UNP Q74ML9
E	-33	MET	-	initiating methionine	UNP Q74ML9
E	-32	GLY	-	expression tag	UNP Q74ML9
E	-31	SER	-	expression tag	UNP Q74ML9

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Chain	Residue	Modelled	Actual	Comment	Reference
E	-30	SER	-	expression tag	UNP Q74ML9
E	-29	HIS	-	expression tag	UNP Q74ML9
E	-28	HIS	-	expression tag	UNP Q74ML9
E	-27	HIS	-	expression tag	UNP Q74ML9
E	-26	HIS	-	expression tag	UNP Q74ML9
E	-25	HIS	-	expression tag	UNP Q74ML9
E	-24	HIS	-	expression tag	UNP Q74ML9
E	-23	SER	-	expression tag	UNP Q74ML9
E	-22	SER	-	expression tag	UNP Q74ML9
E	-21	GLY	-	expression tag	UNP Q74ML9
E	-20	LEU	-	expression tag	UNP Q74ML9
E	-19	VAL	-	expression tag	UNP Q74ML9
E	-18	PRO	-	expression tag	UNP Q74ML9
E	-17	ARG	-	expression tag	UNP Q74ML9
E	-16	GLY	-	expression tag	UNP Q74ML9
E	-15	SER	-	expression tag	UNP Q74ML9
E	-14	HIS	-	expression tag	UNP Q74ML9
E	-13	MET	-	expression tag	UNP Q74ML9
E	-12	ALA	-	expression tag	UNP Q74ML9
E	-11	SER	-	expression tag	UNP Q74ML9
E	-10	MET	-	expression tag	UNP Q74ML9
E	-9	THR	-	expression tag	UNP Q74ML9
E	-8	GLY	-	expression tag	UNP Q74ML9
E	-7	GLY	-	expression tag	UNP Q74ML9
E	-6	GLN	-	expression tag	UNP Q74ML9
E	-5	GLN	-	expression tag	UNP Q74ML9
E	-4	MET	-	expression tag	UNP Q74ML9
E	-3	GLY	-	expression tag	UNP Q74ML9
E	-2	ARG	-	expression tag	UNP Q74ML9
E	-1	GLY	-	expression tag	UNP Q74ML9
E	0	SER	-	expression tag	UNP Q74ML9
F	-33	MET	-	initiating methionine	UNP Q74ML9
F	-32	GLY	-	expression tag	UNP Q74ML9
F	-31	SER	-	expression tag	UNP Q74ML9
F	-30	SER	-	expression tag	UNP Q74ML9
F	-29	HIS	-	expression tag	UNP Q74ML9
F	-28	HIS	-	expression tag	UNP Q74ML9
F	-27	HIS	-	expression tag	UNP Q74ML9
F	-26	HIS	-	expression tag	UNP Q74ML9
F	-25	HIS	-	expression tag	UNP Q74ML9
F	-24	HIS	-	expression tag	UNP Q74ML9
F	-23	SER	-	expression tag	UNP Q74ML9

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Chain	Residue	Modelled	Actual	Comment	Reference
F	-22	SER	-	expression tag	UNP Q74ML9
F	-21	GLY	-	expression tag	UNP Q74ML9
F	-20	LEU	-	expression tag	UNP Q74ML9
F	-19	VAL	-	expression tag	UNP Q74ML9
F	-18	PRO	-	expression tag	UNP Q74ML9
F	-17	ARG	-	expression tag	UNP Q74ML9
F	-16	GLY	-	expression tag	UNP Q74ML9
F	-15	SER	-	expression tag	UNP Q74ML9
F	-14	HIS	-	expression tag	UNP Q74ML9
F	-13	MET	-	expression tag	UNP Q74ML9
F	-12	ALA	-	expression tag	UNP Q74ML9
F	-11	SER	-	expression tag	UNP Q74ML9
F	-10	MET	-	expression tag	UNP Q74ML9
F	-9	THR	-	expression tag	UNP Q74ML9
F	-8	GLY	-	expression tag	UNP Q74ML9
F	-7	GLY	-	expression tag	UNP Q74ML9
F	-6	GLN	-	expression tag	UNP Q74ML9
F	-5	GLN	-	expression tag	UNP Q74ML9
F	-4	MET	-	expression tag	UNP Q74ML9
F	-3	GLY	-	expression tag	UNP Q74ML9
F	-2	ARG	-	expression tag	UNP Q74ML9
F	-1	GLY	-	expression tag	UNP Q74ML9
F	0	SER	-	expression tag	UNP Q74ML9
G	-33	MET	-	initiating methionine	UNP Q74ML9
G	-32	GLY	-	expression tag	UNP Q74ML9
G	-31	SER	-	expression tag	UNP Q74ML9
G	-30	SER	-	expression tag	UNP Q74ML9
G	-29	HIS	-	expression tag	UNP Q74ML9
G	-28	HIS	-	expression tag	UNP Q74ML9
G	-27	HIS	-	expression tag	UNP Q74ML9
G	-26	HIS	-	expression tag	UNP Q74ML9
G	-25	HIS	-	expression tag	UNP Q74ML9
G	-24	HIS	-	expression tag	UNP Q74ML9
G	-23	SER	-	expression tag	UNP Q74ML9
G	-22	SER	-	expression tag	UNP Q74ML9
G	-21	GLY	-	expression tag	UNP Q74ML9
G	-20	LEU	-	expression tag	UNP Q74ML9
G	-19	VAL	-	expression tag	UNP Q74ML9
G	-18	PRO	-	expression tag	UNP Q74ML9
G	-17	ARG	-	expression tag	UNP Q74ML9
G	-16	GLY	-	expression tag	UNP Q74ML9
G	-15	SER	-	expression tag	UNP Q74ML9

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Chain	Residue	Modelled	Actual	Comment	Reference
G	-14	HIS	-	expression tag	UNP Q74ML9
G	-13	MET	-	expression tag	UNP Q74ML9
G	-12	ALA	-	expression tag	UNP Q74ML9
G	-11	SER	-	expression tag	UNP Q74ML9
G	-10	MET	-	expression tag	UNP Q74ML9
G	-9	THR	-	expression tag	UNP Q74ML9
G	-8	GLY	-	expression tag	UNP Q74ML9
G	-7	GLY	-	expression tag	UNP Q74ML9
G	-6	GLN	-	expression tag	UNP Q74ML9
G	-5	GLN	-	expression tag	UNP Q74ML9
G	-4	MET	-	expression tag	UNP Q74ML9
G	-3	GLY	-	expression tag	UNP Q74ML9
G	-2	ARG	-	expression tag	UNP Q74ML9
G	-1	GLY	-	expression tag	UNP Q74ML9
G	0	SER	-	expression tag	UNP Q74ML9
H	-33	MET	-	initiating methionine	UNP Q74ML9
H	-32	GLY	-	expression tag	UNP Q74ML9
H	-31	SER	-	expression tag	UNP Q74ML9
H	-30	SER	-	expression tag	UNP Q74ML9
H	-29	HIS	-	expression tag	UNP Q74ML9
H	-28	HIS	-	expression tag	UNP Q74ML9
H	-27	HIS	-	expression tag	UNP Q74ML9
H	-26	HIS	-	expression tag	UNP Q74ML9
H	-25	HIS	-	expression tag	UNP Q74ML9
H	-24	HIS	-	expression tag	UNP Q74ML9
H	-23	SER	-	expression tag	UNP Q74ML9
H	-22	SER	-	expression tag	UNP Q74ML9
H	-21	GLY	-	expression tag	UNP Q74ML9
H	-20	LEU	-	expression tag	UNP Q74ML9
H	-19	VAL	-	expression tag	UNP Q74ML9
H	-18	PRO	-	expression tag	UNP Q74ML9
H	-17	ARG	-	expression tag	UNP Q74ML9
H	-16	GLY	-	expression tag	UNP Q74ML9
H	-15	SER	-	expression tag	UNP Q74ML9
H	-14	HIS	-	expression tag	UNP Q74ML9
H	-13	MET	-	expression tag	UNP Q74ML9
H	-12	ALA	-	expression tag	UNP Q74ML9
H	-11	SER	-	expression tag	UNP Q74ML9
H	-10	MET	-	expression tag	UNP Q74ML9
H	-9	THR	-	expression tag	UNP Q74ML9
H	-8	GLY	-	expression tag	UNP Q74ML9
H	-7	GLY	-	expression tag	UNP Q74ML9

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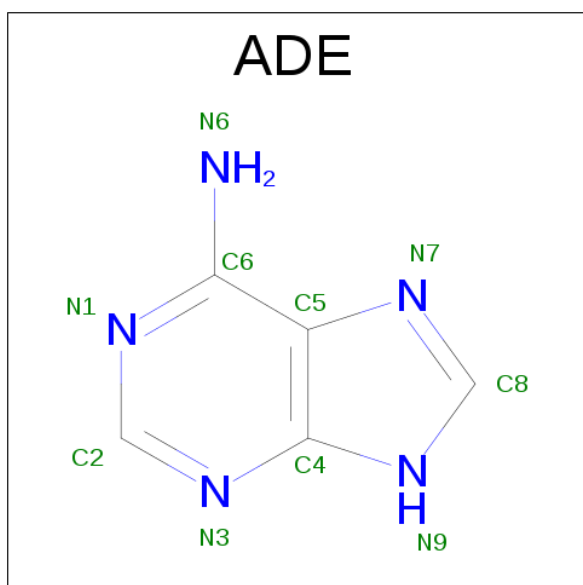
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Chain	Residue	Modelled	Actual	Comment	Reference
H	-6	GLN	-	expression tag	UNP Q74ML9
H	-5	GLN	-	expression tag	UNP Q74ML9
H	-4	MET	-	expression tag	UNP Q74ML9
H	-3	GLY	-	expression tag	UNP Q74ML9
H	-2	ARG	-	expression tag	UNP Q74ML9
H	-1	GLY	-	expression tag	UNP Q74ML9
H	0	SER	-	expression tag	UNP Q74ML9

- Molecule 2 is a DNA chain called ssDNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	I	4	Total 64	C 30	N 15	O 16	P 3	0	0	0
2	J	4	Total 67	C 30	N 15	O 18	P 4	0	0	0

- Molecule 3 is ADENINE (three-letter code: ADE) (formula: C₅H₅N₅).



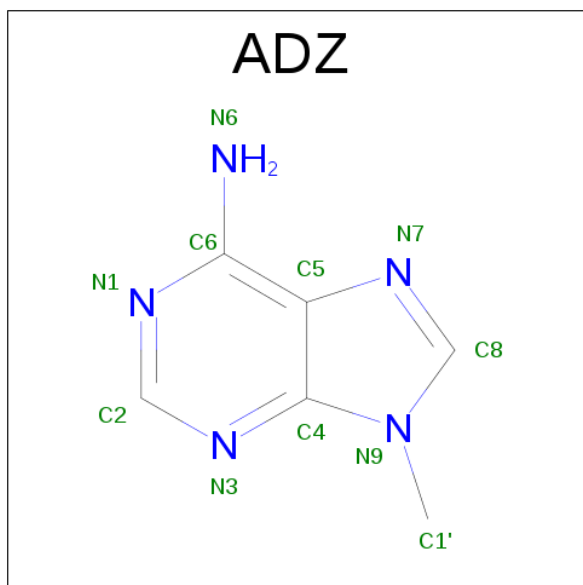
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	N	0	0
			10	5	5		
3	B	1	Total	C	N	0	0
			10	5	5		
3	D	1	Total	C	N	0	0
			10	5	5		
3	G	1	Total	C	N	0	0
			10	5	5		

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

- Molecule 4 is 9-METHYL-9H-PURIN-6-AMINE (three-letter code: ADZ) (formula: $C_6H_7N_5$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	C	1	Total	C	N	0	0
			11	6	5		
4	E	1	Total	C	N	0	0
			11	6	5		
4	E	1	Total	C	N	0	0
			11	6	5		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	50	Total	O	0	0
			50	50		
5	B	50	Total	O	0	0
			50	50		
5	C	47	Total	O	0	0
			47	47		
5	D	45	Total	O	0	0
			45	45		
5	E	39	Total	O	0	0
			39	39		

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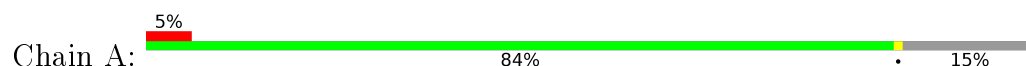
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	F	34	Total 34	O 34	0	0
5	G	44	Total 44	O 44	0	0
5	H	37	Total 37	O 37	0	0
5	I	2	Total 2	O 2	0	0

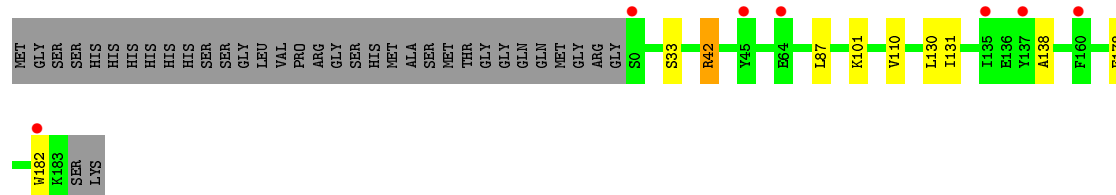
3 Residue-property plots [i](#)

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 ($RSRZ > 2$). 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.

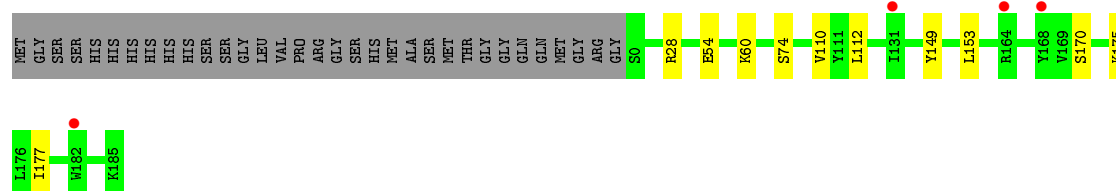
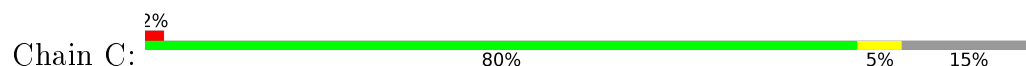
• Molecule 1: NEQ131



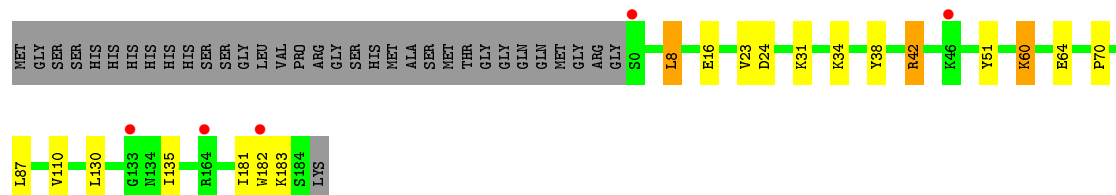
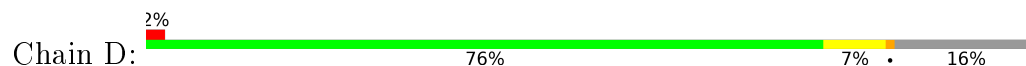
• Molecule 1: NEQ131




• Molecule 1: NEQ131

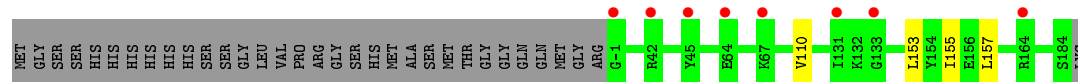


• Molecule 1: NEQ131




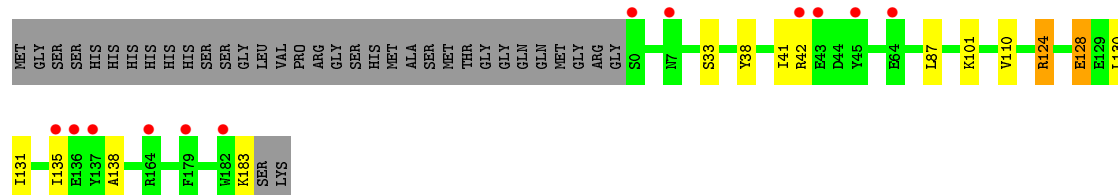
• Molecule 1: NEQ131

Chain E: 




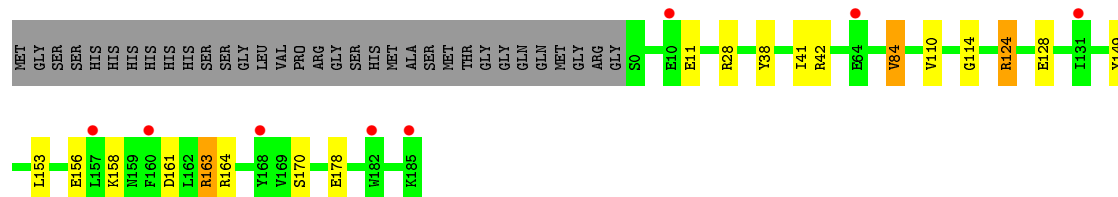
• Molecule 1: NEQ131

Chain F: 




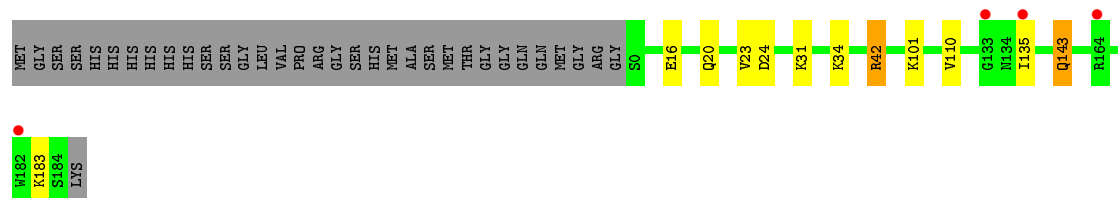
• Molecule 1: NEQ131

Chain G: 



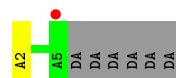
• Molecule 1: NEQ131

Chain H: 



• Molecule 2: ssDNA

Chain I: 



• Molecule 2: ssDNA

Chain J: 

A2	A3	A4	A5	DA	DA	DA	DA	DA	DA

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	98.83Å 128.20Å 102.18Å 90.00° 95.22° 90.00°	Depositor
Resolution (Å)	30.00 – 2.10 29.98 – 2.10	Depositor EDS
% Data completeness (in resolution range)	97.9 (30.00-2.10) 98.0 (29.98-2.10)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.83 (at 2.10Å)	Xtriage
Refinement program	REFMAC 5.7.0029	Depositor
R, R_{free}	0.216 , 0.259 0.221 , 0.263	Depositor DCC
R_{free} test set	7234 reflections (5.27%)	DCC
Wilson B-factor (Å ²)	29.8	Xtriage
Anisotropy	0.478	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 49.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.002 for l,-k,h	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	12809	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 11.65% 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: ADE, ADZ

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	0.40	0/1548	0.53	0/2081
1	B	0.44	0/1540	0.60	2/2072 (0.1%)
1	C	0.50	1/1555 (0.1%)	0.61	0/2089
1	D	0.53	0/1557	0.69	5/2090 (0.2%)
1	E	0.39	0/1563	0.56	0/2098
1	F	0.44	0/1553	0.62	1/2084 (0.0%)
1	G	0.48	0/1577	0.66	2/2115 (0.1%)
1	H	0.57	0/1562	0.70	2/2096 (0.1%)
2	I	0.34	0/72	0.65	0/110
2	J	0.39	0/75	0.54	0/114
All	All	0.47	1/12602 (0.0%)	0.62	12/16949 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	54	GLU	CG-CD	5.45	1.60	1.51

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	42	ARG	NE-CZ-NH1	7.08	123.84	120.30
1	H	42	ARG	NE-CZ-NH1	6.99	123.80	120.30
1	G	163	ARG	NE-CZ-NH1	6.21	123.41	120.30
1	D	8	LEU	CB-CG-CD1	-5.57	101.53	111.00
1	G	163	ARG	NE-CZ-NH2	-5.47	117.56	120.30
1	H	42	ARG	NE-CZ-NH2	-5.35	117.63	120.30
1	F	87	LEU	CB-CG-CD1	-5.18	102.20	111.00
1	D	87	LEU	CB-CG-CD2	5.15	119.76	111.00
1	D	87	LEU	CB-CG-CD1	-5.12	102.30	111.00
1	D	8	LEU	CB-CG-CD2	5.10	119.68	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	87	LEU	CB-CG-CD2	5.05	119.59	111.00
1	B	87	LEU	CB-CG-CD1	-5.03	102.46	111.00

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	1522	0	1526	1	0
1	B	1514	0	1511	8	0
1	C	1529	0	1531	8	0
1	D	1531	0	1560	20	0
1	E	1537	0	1560	1	0
1	F	1527	0	1560	8	0
1	G	1551	0	1574	15	0
1	H	1536	0	1564	13	0
2	I	64	0	34	9	0
2	J	67	0	33	10	0
3	A	10	0	4	0	0
3	B	10	0	4	0	0
3	D	10	0	4	0	0
3	G	10	0	4	0	0
3	H	10	0	4	0	0
4	C	11	0	7	1	0
4	E	22	0	14	0	0
5	A	50	0	0	1	0
5	B	50	0	0	1	0
5	C	47	0	0	2	0
5	D	45	0	0	2	0
5	E	39	0	0	0	0
5	F	34	0	0	3	0
5	G	44	0	0	4	0
5	H	37	0	0	3	0
5	I	2	0	0	0	0
All	All	12809	0	12494	66	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 3.

All (66) 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)
2:I:2:DA:C1'	2:J:2:DA:H62	1.17	1.55
2:I:2:DA:H62	2:J:2:DA:C1'	1.25	1.41
2:I:2:DA:H1'	2:J:2:DA:N6	1.33	1.07
2:I:2:DA:N6	2:J:2:DA:H1'	1.23	1.05
1:D:183:LYS:HE2	5:G:1115:HOH:O	1.70	0.90
2:I:2:DA:H1'	2:J:2:DA:H62	0.73	0.88
1:G:149:TYR:OH	5:G:1101:HOH:O	1.95	0.80
1:C:149:TYR:OH	5:C:1101:HOH:O	2.01	0.79
2:I:2:DA:C1'	2:J:2:DA:N6	1.93	0.77
1:H:143:GLN:HE21	1:H:143:GLN:HA	1.57	0.69
1:F:41:ILE:HD13	1:F:124:ARG:HG2	1.78	0.66
1:B:42:ARG:NH1	1:B:42:ARG:HG3	2.10	0.65
1:B:42:ARG:HH11	1:B:42:ARG:HG3	1.62	0.64
1:D:38:TYR:HE2	1:G:163:ARG:HD2	1.63	0.64
1:G:28:ARG:NH1	5:G:1102:HOH:O	2.18	0.63
1:B:42:ARG:HH11	1:B:42:ARG:CG	2.13	0.62
1:D:31:LYS:NZ	1:H:16:GLU:OE1	2.35	0.59
1:A:178:GLU:OE2	1:C:175:LYS:NZ	2.20	0.59
1:C:112:LEU:HD21	1:D:8:LEU:HD11	1.83	0.59
1:D:130:LEU:HD22	1:D:183:LYS:HG3	1.87	0.56
1:B:131:ILE:HG22	1:D:181:ILE:HG13	1.88	0.56
1:D:23:VAL:HG11	2:I:2:DA:C6	2.41	0.56
1:D:16:GLU:OE1	1:H:31:LYS:NZ	2.39	0.55
1:H:34:LYS:NZ	5:H:1102:HOH:O	2.39	0.55
1:F:41:ILE:HD13	1:F:124:ARG:CG	2.36	0.55
1:D:8:LEU:C	1:D:8:LEU:HD13	2.27	0.54
1:G:84:VAL:HG22	1:G:114:GLY:HA3	1.88	0.54
1:D:51:TYR:OH	1:G:156:GLU:OE2	2.20	0.54
1:H:23:VAL:HG11	2:J:2:DA:C6	2.42	0.54
1:B:138:ALA:HB2	5:B:1106:HOH:O	2.07	0.53
1:D:38:TYR:CE2	1:G:163:ARG:HD2	2.43	0.53
1:F:138:ALA:HB2	5:F:204:HOH:O	2.10	0.52
1:F:38:TYR:CE2	1:F:42:ARG:HD3	2.44	0.52
2:I:2:DA:N6	2:J:2:DA:C1'	2.02	0.51
1:G:41:ILE:HD13	1:G:124:ARG:HG2	1.93	0.51
1:C:74:SER:CB	4:C:1001:ADZ:H2	2.42	0.50
1:C:153:LEU:HD13	1:H:42:ARG:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:42:ARG:HB3	1:G:153:LEU:HD13	1.94	0.48
1:G:11:GLU:OE1	1:H:101:LYS:NZ	2.35	0.48
1:C:28:ARG:NH2	5:C:1105:HOH:O	2.47	0.47
1:D:135:ILE:HD12	1:D:183:LYS:HB3	1.96	0.47
1:E:155:ILE:HD11	1:E:157:LEU:HD21	1.96	0.47
1:B:182:TRP:HB2	1:D:182:TRP:HZ3	1.80	0.46
5:A:1146:HOH:O	1:B:101:LYS:HE3	2.15	0.46
2:I:2:DA:H62	2:J:2:DA:H1'	0.37	0.46
1:H:20:GLN:HG2	5:H:1132:HOH:O	2.15	0.45
1:H:143:GLN:HG2	5:H:1101:HOH:O	2.16	0.44
1:C:149:TYR:CE1	1:C:170:SER:HB3	2.52	0.44
1:H:23:VAL:HG11	2:J:2:DA:N6	2.32	0.44
1:B:178:GLU:OE1	1:D:182:TRP:HZ2	2.01	0.44
1:F:101:LYS:HE3	5:F:233:HOH:O	2.18	0.44
1:G:158:LYS:O	1:G:163:ARG:NH1	2.51	0.43
1:F:128:GLU:O	1:F:131:ILE:HG22	2.18	0.43
1:H:135:ILE:HD12	1:H:183:LYS:HB3	2.00	0.43
1:G:149:TYR:CE1	1:G:170:SER:HB3	2.54	0.43
1:F:128:GLU:HB3	5:F:206:HOH:O	2.18	0.43
1:G:38:TYR:CE1	1:G:42:ARG:HD3	2.54	0.42
1:G:42:ARG:NH2	5:G:1108:HOH:O	2.52	0.42
1:D:70:PRO:CB	5:D:1108:HOH:O	2.68	0.42
1:D:34:LYS:HE2	1:G:163:ARG:CZ	2.50	0.42
1:F:135:ILE:HD12	1:F:183:LYS:HB3	2.01	0.41
1:G:161:ASP:O	1:G:164:ARG:HG2	2.20	0.41
1:D:70:PRO:HB2	5:D:1108:HOH:O	2.21	0.41
1:C:177:ILE:HG21	1:H:183:LYS:NZ	2.36	0.40
1:D:24:ASP:OD1	1:H:24:ASP:OD1	2.39	0.40
1:D:60:LYS:HA	1:D:60:LYS:HD3	1.81	0.40

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	184/219 (84%)	183 (100%)	1 (0%)	0	100	100
1	B	182/219 (83%)	181 (100%)	1 (0%)	0	100	100
1	C	184/219 (84%)	183 (100%)	1 (0%)	0	100	100
1	D	183/219 (84%)	182 (100%)	1 (0%)	0	100	100
1	E	184/219 (84%)	183 (100%)	1 (0%)	0	100	100
1	F	182/219 (83%)	181 (100%)	1 (0%)	0	100	100
1	G	184/219 (84%)	183 (100%)	1 (0%)	0	100	100
1	H	183/219 (84%)	182 (100%)	1 (0%)	0	100	100
All	All	1466/1752 (84%)	1458 (100%)	8 (0%)	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	160/197 (81%)	158 (99%)	2 (1%)	76	82
1	B	159/197 (81%)	155 (98%)	4 (2%)	55	59
1	C	160/197 (81%)	158 (99%)	2 (1%)	76	82
1	D	164/197 (83%)	161 (98%)	3 (2%)	66	72
1	E	164/197 (83%)	162 (99%)	2 (1%)	78	84
1	F	164/197 (83%)	159 (97%)	5 (3%)	48	51
1	G	168/197 (85%)	163 (97%)	5 (3%)	48	51
1	H	165/197 (84%)	163 (99%)	2 (1%)	78	84
All	All	1304/1576 (83%)	1279 (98%)	25 (2%)	65	70

All (25) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	110	VAL
1	A	124	ARG

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Mol	Chain	Res	Type
1	B	33	SER
1	B	42	ARG
1	B	110	VAL
1	B	130	LEU
1	C	60	LYS
1	C	110	VAL
1	D	60	LYS
1	D	64	GLU
1	D	110	VAL
1	E	110	VAL
1	E	153	LEU
1	F	33	SER
1	F	110	VAL
1	F	124	ARG
1	F	128	GLU
1	F	130	LEU
1	G	84	VAL
1	G	110	VAL
1	G	124	ARG
1	G	128	GLU
1	G	178	GLU
1	H	110	VAL
1	H	143	GLN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	75	ASN
1	B	4	ASN
1	D	4	ASN
1	F	4	ASN
1	H	4	ASN
1	H	143	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 ⓘ

8 ligands are modelled in this entry.

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	ADE	A	1001	-	9,11,11	0.90	0	4,15,15	1.51	1 (25%)
3	ADE	B	1001	-	9,11,11	0.90	0	4,15,15	1.51	1 (25%)
4	ADZ	C	1001	-	10,12,12	0.66	0	5,17,17	0.42	0
3	ADE	D	1001	-	9,11,11	0.90	0	4,15,15	1.51	1 (25%)
4	ADZ	E	1001	-	10,12,12	0.65	0	5,17,17	0.44	0
4	ADZ	E	1002	-	10,12,12	0.65	0	5,17,17	0.40	0
3	ADE	G	1001	-	9,11,11	0.87	0	4,15,15	1.52	1 (25%)
3	ADE	H	1001	-	9,11,11	0.91	0	4,15,15	1.51	1 (25%)

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	ADE	A	1001	-	-	0/0/0/0	0/2/2/2
3	ADE	B	1001	-	-	0/0/0/0	0/2/2/2
4	ADZ	C	1001	-	-	0/0/0/0	0/2/2/2
3	ADE	D	1001	-	-	0/0/0/0	0/2/2/2
4	ADZ	E	1001	-	-	0/0/0/0	0/2/2/2
4	ADZ	E	1002	-	-	0/0/0/0	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	ADE	G	1001	-	-	0/0/0/0	0/2/2/2
3	ADE	H	1001	-	-	0/0/0/0	0/2/2/2

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1001	ADE	C5-C4-N9	-2.99	105.81	111.12
3	H	1001	ADE	C5-C4-N9	-2.99	105.82	111.12
3	B	1001	ADE	C5-C4-N9	-2.99	105.82	111.12
3	G	1001	ADE	C5-C4-N9	-2.99	105.82	111.12
3	D	1001	ADE	C5-C4-N9	-2.98	105.83	111.12

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	C	1001	ADZ	1	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 ⓘ

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	186/219 (84%)	0.19	10 (5%) 29 38	26, 37, 53, 64	0
1	B	184/219 (84%)	0.24	7 (3%) 44 53	21, 32, 53, 61	0
1	C	186/219 (84%)	0.29	4 (2%) 65 71	22, 33, 47, 54	0
1	D	185/219 (84%)	0.27	5 (2%) 58 65	20, 30, 47, 71	0
1	E	186/219 (84%)	0.26	8 (4%) 39 48	26, 37, 56, 68	0
1	F	184/219 (84%)	0.24	12 (6%) 22 29	22, 32, 53, 69	0
1	G	186/219 (84%)	0.29	8 (4%) 39 48	23, 34, 49, 66	0
1	H	185/219 (84%)	0.35	4 (2%) 65 71	20, 31, 49, 70	0
2	I	4/10 (40%)	1.67	1 (25%) 1 1	38, 47, 53, 65	1 (25%)
2	J	4/10 (40%)	1.64	2 (50%) 0 0	42, 48, 52, 66	1 (25%)
All	All	1490/1772 (84%)	0.27	61 (4%) 41 50	20, 34, 53, 71	2 (0%)

All (61) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	I	5	DA	3.7
1	B	45	TYR	3.6
1	B	135	ILE	3.4
1	H	133	GLY	3.4
1	F	45	TYR	3.3
1	G	185	LYS	3.3
1	G	182	TRP	3.3
1	E	45	TYR	3.2
1	B	0	SER	3.2
1	D	0	SER	3.1
1	A	45	TYR	3.1
1	D	133	GLY	3.1
1	C	131	ILE	3.1

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Mol	Chain	Res	Type	RSRZ
1	E	64	GLU	3.0
1	E	133	GLY	3.0
1	G	131	ILE	2.9
2	J	5	DA	2.9
1	D	182	TRP	2.9
1	G	168	TYR	2.9
1	G	160	PHE	2.8
1	H	182	TRP	2.8
1	A	160	PHE	2.8
1	C	164	ARG	2.8
1	F	64	GLU	2.8
1	F	136	GLU	2.8
1	A	64	GLU	2.8
1	E	131	ILE	2.6
1	F	43	GLU	2.6
1	B	160	PHE	2.6
2	J	4	DA	2.5
1	F	182	TRP	2.4
1	C	168	TYR	2.4
1	C	182	TRP	2.4
1	A	-1	GLY	2.4
1	E	42	ARG	2.4
1	D	164	ARG	2.3
1	F	137	TYR	2.3
1	A	131	ILE	2.3
1	E	-1	GLY	2.3
1	A	46	LYS	2.2
1	G	64	GLU	2.2
1	E	164	ARG	2.2
1	B	137	TYR	2.2
1	F	0	SER	2.2
1	A	49	ASP	2.2
1	D	46	LYS	2.2
1	A	110	VAL	2.1
1	F	42	ARG	2.1
1	H	164	ARG	2.1
1	B	64	GLU	2.1
1	H	135	ILE	2.1
1	F	7	ASN	2.1
1	F	179	PHE	2.1
1	F	164	ARG	2.1
1	E	67	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
1	F	135	ILE	2.1
1	A	53	GLU	2.1
1	A	133	GLY	2.1
1	B	182	TRP	2.0
1	G	157	LEU	2.0
1	G	10	GLU	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 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	ADE	H	1001	10/10	0.79	0.33	8.78	51,61,72,73	0
4	ADZ	E	1001	11/11	0.85	0.17	4.58	43,52,58,60	0
3	ADE	D	1001	10/10	0.85	0.24	3.20	46,58,61,62	0
4	ADZ	E	1002	11/11	0.89	0.24	2.84	35,56,62,64	0
3	ADE	G	1001	10/10	0.89	0.15	1.90	43,51,53,55	0
3	ADE	A	1001	10/10	0.92	0.17	1.47	47,53,59,61	0
3	ADE	B	1001	10/10	0.89	0.13	1.11	50,55,66,73	0
4	ADZ	C	1001	11/11	0.88	0.15	0.42	54,60,64,67	0

6.5 Other polymers [i](#)

There are no such residues in this entry.