



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 20, 2026 – 07:18 AM UTC

PDB ID : 8GXJ / pdb_00008gxj
Title : Pseudomonas aeruginosa N-acetyltransferase domain-containing protein PA3270
Authors : Song, Y.J.; Bao, R.
Deposited on : 2022-09-20
Resolution : 2.18 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
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

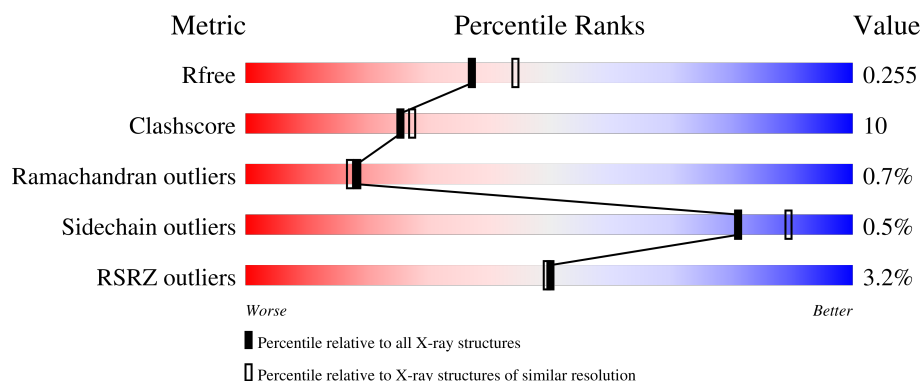
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.18 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	8975 (2.20-2.16)
Clashscore	190562	9786 (2.20-2.16)
Ramachandran outliers	187476	9664 (2.20-2.16)
Sidechain outliers	187428	9664 (2.20-2.16)
RSRZ outliers	180081	8979 (2.20-2.16)

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	195	3% 81% 16% .
1	B	195	2% 68% 25% 5%
1	C	195	4% 79% 13% 6%
1	D	195	4% 78% 16% ...

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 5994 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 N-acetyltransferase domain-containing protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	189	Total	C	N	O	S	0	0	0
			1491	943	276	266	6			
1	B	185	Total	C	N	O	S	0	0	0
			1463	924	272	262	5			
1	C	184	Total	C	N	O	S	0	0	0
			1454	918	270	261	5			
1	D	189	Total	C	N	O	S	0	0	0
			1493	944	276	267	6			

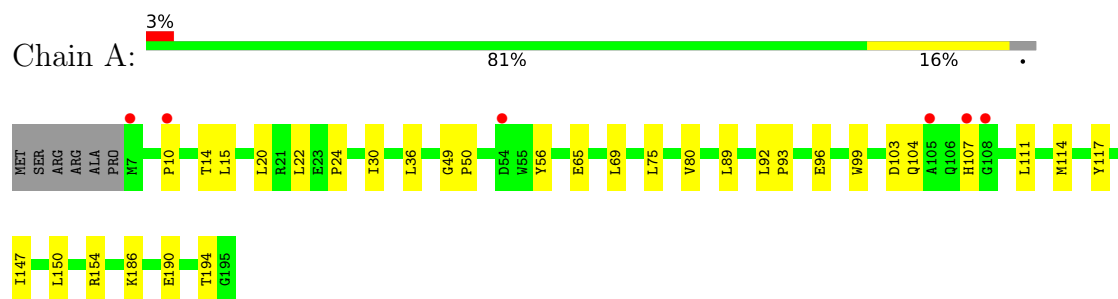
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	20	Total	O	0	0
			20	20		
2	B	21	Total	O	0	0
			21	21		
2	C	33	Total	O	0	0
			33	33		
2	D	19	Total	O	0	0
			19	19		

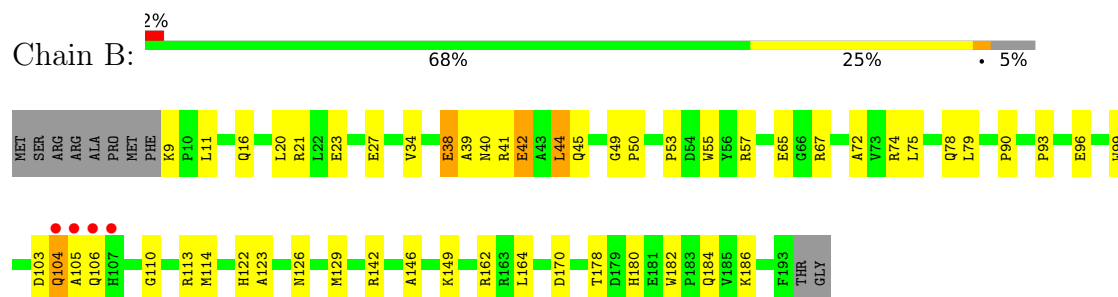
3 Residue-property plots [i](#)

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.

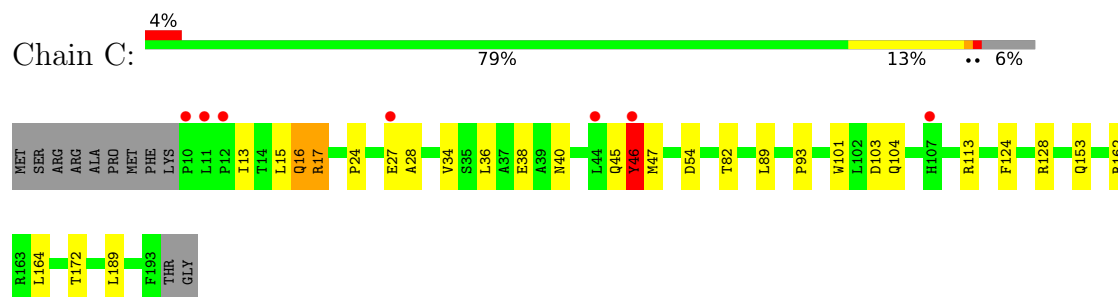
- Molecule 1: N-acetyltransferase domain-containing protein



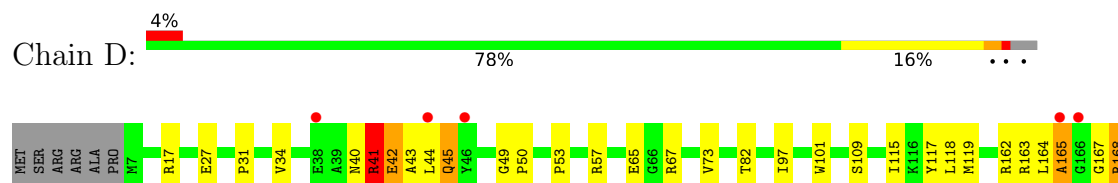
- Molecule 1: N-acetyltransferase domain-containing protein



- Molecule 1: N-acetyltransferase domain-containing protein



- Molecule 1: N-acetyltransferase domain-containing protein





4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	100.25Å 100.25Å 147.66Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	17.41 – 2.18 17.41 – 2.18	Depositor EDS
% Data completeness (in resolution range)	100.0 (17.41-2.18) 93.6 (17.41-2.18)	Depositor EDS
R_{merge}	0.15	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.56 (at 2.18Å)	Xtriage
Refinement program	PHENIX 1.13_2998	Depositor
R, R_{free}	0.208 , 0.254 0.209 , 0.255	Depositor DCC
R_{free} test set	1993 reflections (2.66%)	wwPDB-VP
Wilson B-factor (Å ²)	36.3	Xtriage
Anisotropy	0.025	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 21.7	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	0.94	EDS
Total number of atoms	5994	wwPDB-VP
Average B, all atoms (Å ²)	43.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.15% 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 [i](#)

5.1 Standard geometry [i](#)

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	0.46	0/1522	0.63	0/2062
1	B	0.70	6/1493 (0.4%)	0.67	4/2024 (0.2%)
1	C	0.56	2/1484 (0.1%)	0.72	2/2012 (0.1%)
1	D	0.68	3/1524 (0.2%)	0.67	1/2065 (0.0%)
All	All	0.61	11/6023 (0.2%)	0.67	7/8163 (0.1%)

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	42	GLU	C-O	-7.02	1.15	1.24
1	D	41	ARG	CA-C	-6.44	1.44	1.52
1	D	168	ARG	C-O	-6.29	1.16	1.23
1	B	41	ARG	C-O	-6.04	1.16	1.24
1	C	17	ARG	C-O	-5.73	1.18	1.23
1	B	39	ALA	C-O	-5.71	1.16	1.23
1	B	38	GLU	C-O	-5.68	1.16	1.24
1	B	45	GLN	C-O	-5.61	1.17	1.23
1	B	40	ASN	C-O	-5.46	1.17	1.24
1	D	162	ARG	C-O	-5.29	1.17	1.23
1	C	15	LEU	C-O	-5.15	1.17	1.24

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	46	TYR	N-CA-C	-14.08	88.54	110.36
1	D	45	GLN	N-CA-C	-5.91	106.03	113.18
1	C	16	GLN	N-CA-C	5.84	118.28	109.23
1	B	44	LEU	N-CA-C	5.62	119.45	112.59
1	B	104	GLN	N-CA-C	5.29	117.73	111.33
1	B	103	ASP	CA-C-N	5.15	127.43	120.38
1	B	103	ASP	C-N-CA	5.15	127.43	120.38

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	1491	0	1500	22	0
1	B	1463	0	1477	44	0
1	C	1454	0	1465	20	0
1	D	1493	0	1505	34	0
2	A	20	0	0	0	0
2	B	21	0	0	1	0
2	C	33	0	0	1	0
2	D	19	0	0	0	0
All	All	5994	0	5947	114	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 10.

All (114) 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:D:42:GLU:N	1:D:42:GLU:OE1	1.94	0.97
1:C:46:TYR:CB	1:C:47:MET:HA	2.01	0.89
1:B:146:ALA:HA	1:B:149:LYS:HD3	1.65	0.77
1:A:65:GLU:CD	1:A:65:GLU:O	2.29	0.76
1:D:97:ILE:HD12	1:D:119:MET:HE2	1.69	0.75
1:A:154:ARG:HE	1:B:104:GLN:HE21	1.35	0.74
1:A:75:LEU:HD12	1:A:80:VAL:HG21	1.67	0.74
1:B:34:VAL:O	1:B:38:GLU:HG3	1.88	0.72
1:B:164:LEU:HD21	1:B:170:ASP:HB2	1.72	0.72
1:B:42:GLU:HG3	1:B:104:GLN:OE1	1.89	0.71
1:D:45:GLN:O	1:D:165:ALA:HB3	1.90	0.71
1:D:82:THR:HG22	1:D:101:TRP:CD1	2.28	0.69
1:B:146:ALA:HB1	1:B:149:LYS:HZ1	1.59	0.67
1:D:40:ASN:HB3	1:D:44:LEU:CD1	2.26	0.66
1:D:40:ASN:HB3	1:D:44:LEU:HD12	1.79	0.65
1:D:168:ARG:HH21	1:D:168:ARG:HG3	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:46:TYR:HB2	1:C:47:MET:HA	1.76	0.65
1:C:54:ASP:OD1	2:C:201:HOH:O	2.15	0.65
1:C:46:TYR:HB3	1:C:47:MET:HA	1.78	0.64
1:B:113:ARG:HG2	1:B:149:LYS:HE2	1.80	0.63
1:A:10:PRO:HB2	1:A:69:LEU:HD11	1.80	0.62
1:A:20:LEU:HD13	1:A:111:LEU:HD11	1.82	0.62
1:A:154:ARG:NH2	1:B:104:GLN:HB2	2.17	0.60
1:C:36:LEU:O	1:C:40:ASN:ND2	2.33	0.60
1:D:186:LYS:O	1:D:190:GLU:HG3	2.02	0.59
1:C:34:VAL:O	1:C:38:GLU:HG3	2.02	0.59
1:B:184:GLN:H	1:B:184:GLN:CD	2.13	0.57
1:D:41:ARG:N	1:D:42:GLU:OE1	2.37	0.57
1:B:11:LEU:N	1:B:11:LEU:HD22	2.20	0.56
1:A:154:ARG:HH21	1:B:104:GLN:HB2	1.69	0.56
1:A:15:LEU:HD12	1:A:22:LEU:HD12	1.86	0.56
1:B:20:LEU:HD23	1:B:114:MET:HG3	1.87	0.56
1:B:49:GLY:HA3	1:B:55:TRP:CG	2.42	0.55
1:B:104:GLN:C	1:B:106:GLN:H	2.16	0.54
1:D:73:VAL:HG11	1:D:115:ILE:HD11	1.88	0.54
1:A:14:THR:HG22	1:A:24:PRO:HD3	1.89	0.53
1:D:42:GLU:H	1:D:42:GLU:CD	2.10	0.53
1:B:146:ALA:HB1	1:B:149:LYS:NZ	2.24	0.53
1:B:178:THR:HG22	1:B:180:HIS:H	1.74	0.53
1:A:114:MET:HE1	1:A:117:TYR:HD2	1.71	0.52
1:B:9:LYS:HE3	1:B:90:PRO:HA	1.92	0.52
1:B:123:ALA:O	1:B:129:MET:HG3	2.10	0.52
1:D:43:ALA:C	1:D:45:GLN:H	2.18	0.51
1:B:184:GLN:CD	1:B:184:GLN:N	2.70	0.50
1:B:96:GLU:HG2	1:B:99:TRP:CZ3	2.46	0.50
1:C:16:GLN:HG2	1:C:17:ARG:N	2.26	0.50
1:B:9:LYS:O	1:B:11:LEU:HD22	2.12	0.49
1:A:104:GLN:HA	1:A:107:HIS:ND1	2.26	0.49
1:C:46:TYR:CE2	1:C:164:LEU:HD22	2.48	0.49
1:B:49:GLY:HA3	1:B:55:TRP:CD1	2.48	0.49
1:B:142:ARG:NH2	1:C:153:GLN:HB3	2.28	0.49
1:B:110:GLY:HA2	1:B:113:ARG:HG3	1.95	0.48
1:B:65:GLU:HB2	1:B:67:ARG:HG3	1.95	0.48
1:A:30:ILE:HG13	1:A:56:TYR:HB2	1.96	0.48
1:B:72:ALA:HB1	1:B:79:LEU:HD21	1.95	0.48
1:D:31:PRO:HA	1:D:34:VAL:HG22	1.97	0.47
1:D:40:ASN:HA	1:D:42:GLU:OE2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:162:ARG:NH1	2:B:202:HOH:O	2.47	0.47
1:D:27:GLU:OE2	1:D:57:ARG:NH2	2.48	0.47
1:D:168:ARG:HG3	1:D:168:ARG:NH2	2.30	0.47
1:B:93:PRO:HG2	1:B:129:MET:HA	1.96	0.47
1:D:42:GLU:O	1:D:45:GLN:HB2	2.16	0.46
1:D:44:LEU:CD2	1:D:101:TRP:HB2	2.45	0.46
1:B:27:GLU:OE2	1:B:57:ARG:NH2	2.46	0.46
1:C:113:ARG:NH2	1:C:189:LEU:HD23	2.31	0.46
1:A:186:LYS:O	1:A:190:GLU:HG2	2.15	0.45
1:B:182:TRP:CZ2	1:B:186:LYS:HB2	2.51	0.45
1:A:96:GLU:HG2	1:A:99:TRP:CZ3	2.52	0.45
1:C:82:THR:HG22	1:C:101:TRP:NE1	2.31	0.45
1:D:17:ARG:HB2	1:D:118:LEU:HD21	1.98	0.45
1:B:104:GLN:C	1:B:106:GLN:N	2.73	0.45
1:A:89:LEU:O	1:A:93:PRO:HA	2.18	0.44
1:D:49:GLY:N	1:D:50:PRO:HD2	2.32	0.44
1:C:13:ILE:O	1:C:24:PRO:HD3	2.18	0.44
1:C:124:PHE:O	1:C:128:ARG:HA	2.17	0.44
1:B:78:GLN:NE2	1:B:79:LEU:O	2.50	0.44
1:A:92:LEU:HB2	1:A:93:PRO:C	2.42	0.44
1:A:154:ARG:HE	1:B:104:GLN:NE2	2.07	0.44
1:B:16:GLN:OE1	1:B:21:ARG:NH2	2.51	0.44
1:C:46:TYR:HB2	1:C:47:MET:CA	2.42	0.43
1:A:30:ILE:HG13	1:A:56:TYR:CB	2.48	0.43
1:A:114:MET:CE	1:A:117:TYR:HD2	2.32	0.43
1:A:147:ILE:O	1:A:150:LEU:HB2	2.18	0.43
1:B:122:HIS:O	1:B:126:ASN:HB2	2.18	0.43
1:C:89:LEU:O	1:C:93:PRO:HA	2.19	0.43
1:D:40:ASN:C	1:D:42:GLU:OE1	2.62	0.43
1:B:146:ALA:C	1:B:149:LYS:HZ2	2.25	0.43
1:B:42:GLU:HG3	1:B:104:GLN:CD	2.44	0.42
1:D:193:PHE:HA	1:D:194:THR:HA	1.78	0.42
1:D:42:GLU:N	1:D:42:GLU:CD	2.71	0.42
1:B:21:ARG:HD2	1:B:23:GLU:OE2	2.18	0.42
1:D:117:TYR:OH	1:D:190:GLU:OE1	2.20	0.42
1:A:36:LEU:HD21	1:A:103:ASP:HB2	2.01	0.42
1:B:44:LEU:HD22	1:B:50:PRO:HG2	2.02	0.42
1:C:27:GLU:HG3	1:C:28:ALA:N	2.34	0.41
1:D:168:ARG:HH21	1:D:168:ARG:CG	2.31	0.41
1:B:53:PRO:HB3	1:D:109:SER:HA	2.01	0.41
1:C:162:ARG:HH21	1:C:172:THR:HG23	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:44:LEU:HD21	1:D:101:TRP:HB2	2.03	0.41
1:D:53:PRO:HB2	1:D:57:ARG:NH1	2.36	0.41
1:B:23:GLU:OE1	1:B:74:ARG:NE	2.45	0.41
1:B:42:GLU:OE1	1:B:104:GLN:CD	2.64	0.41
1:C:16:GLN:CG	1:C:17:ARG:N	2.84	0.41
1:D:164:LEU:HD23	1:D:164:LEU:HA	1.80	0.41
1:B:9:LYS:O	1:B:11:LEU:CD2	2.69	0.41
1:D:65:GLU:OE2	1:D:67:ARG:HD3	2.21	0.41
1:B:75:LEU:HD12	1:B:75:LEU:HA	1.88	0.40
1:D:40:ASN:O	1:D:43:ALA:HB3	2.21	0.40
1:C:40:ASN:OD1	1:C:104:GLN:N	2.41	0.40
1:D:163:ARG:HG3	1:D:169:LEU:HD23	2.02	0.40
1:A:49:GLY:N	1:A:50:PRO:HD2	2.37	0.40
1:C:36:LEU:HD21	1:C:103:ASP:HB3	2.03	0.40
1:D:182:TRP:CE2	1:D:186:LYS:HB2	2.56	0.40
1:D:182:TRP:CZ2	1:D:186:LYS:HB2	2.57	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	187/195 (96%)	183 (98%)	3 (2%)	1 (0%)	24	25
1	B	183/195 (94%)	181 (99%)	1 (0%)	1 (0%)	24	25
1	C	182/195 (93%)	175 (96%)	6 (3%)	1 (0%)	24	25
1	D	187/195 (96%)	179 (96%)	6 (3%)	2 (1%)	11	9
All	All	739/780 (95%)	718 (97%)	16 (2%)	5 (1%)	18	17

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	194	THR
1	C	45	GLN
1	D	167	GLY
1	B	105	ALA
1	D	165	ALA

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	152/158 (96%)	152 (100%)	0	100	100
1	B	150/158 (95%)	150 (100%)	0	100	100
1	C	149/158 (94%)	148 (99%)	1 (1%)	76	86
1	D	153/158 (97%)	151 (99%)	2 (1%)	61	74
All	All	604/632 (96%)	601 (100%)	3 (0%)	81	89

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	46	TYR
1	D	41	ARG
1	D	42	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	112	ASN
1	B	63	GLN
1	B	78	GLN
1	B	104	GLN
1	C	106	GLN
1	C	107	HIS
1	C	153	GLN
1	D	122	HIS
1	D	126	ASN

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Mol	Chain	Res	Type
1	D	144	GLN
1	D	153	GLN
1	D	184	GLN

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](#)

There are no ligands in this entry.

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	189/195 (96%)	0.20	6 (3%) 50 49	28, 39, 56, 76	0
1	B	185/195 (94%)	0.31	4 (2%) 62 61	32, 41, 60, 85	0
1	C	184/195 (94%)	0.13	7 (3%) 44 43	30, 40, 58, 72	0
1	D	189/195 (96%)	0.28	7 (3%) 45 44	27, 42, 72, 93	0
All	All	747/780 (95%)	0.23	24 (3%) 50 49	27, 40, 61, 93	0

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	46	TYR	5.7
1	D	46	TYR	5.0
1	A	108	GLY	4.1
1	D	44	LEU	3.6
1	A	105	ALA	3.3
1	B	107	HIS	3.2
1	B	105	ALA	3.2
1	B	104	GLN	3.1
1	D	165	ALA	2.9
1	D	195	GLY	2.9
1	A	54	ASP	2.8
1	A	10	PRO	2.7
1	A	7	MET	2.5
1	D	193	PHE	2.5
1	B	106	GLN	2.5
1	C	10	PRO	2.4
1	A	107	HIS	2.4
1	C	44	LEU	2.3
1	C	12	PRO	2.3
1	D	166	GLY	2.2
1	C	27	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
1	C	11	LEU	2.1
1	C	107	HIS	2.1
1	D	38	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 oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.