



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 09:48 PM UTC

PDB ID : 7I0E / pdb_00007i0e
Title : PanDDA analysis group deposition – Crystal structure of Enterococcus faecium VatD in complex with ZINC000000164607
Authors : Asthana, P.; Fraser, J.S.
Deposited on : 2025-01-25
Resolution : 1.96 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
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

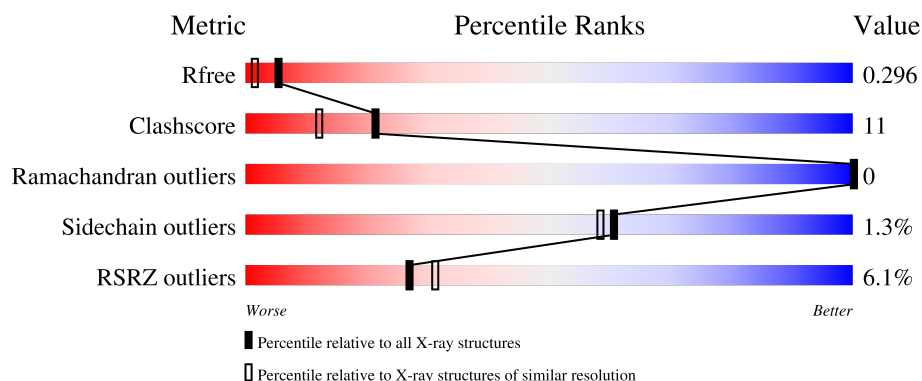
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.96 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	3494 (1.96-1.96)
Clashscore	190562	3612 (1.96-1.96)
Ramachandran outliers	187476	3587 (1.96-1.96)
Sidechain outliers	187428	3587 (1.96-1.96)
RSRZ outliers	180081	3495 (1.96-1.96)

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	209	5% 78% 20% .
1	B	209	5% 78% 19% ..
1	C	209	8% 70% 25% ..

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 10242 atoms, of which 5104 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.

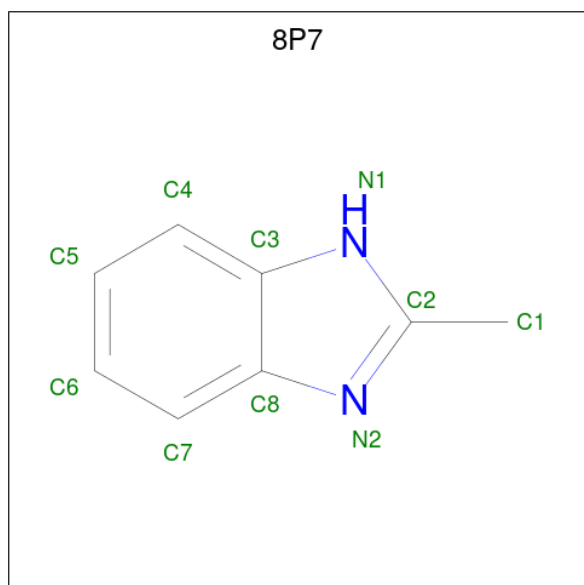
- Molecule 1 is a protein called Streptogramin A acetyltransferase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	203	Total	C	H	N	O	S	0	13	0
			3372	1087	1685	281	311	8			
1	B	203	Total	C	H	N	O	S	0	11	0
			3348	1083	1671	276	310	8			
1	C	202	Total	C	H	N	O	S	0	24	0
			3466	1116	1732	290	320	8			

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	expression tag	UNP P50870
B	1	GLY	-	expression tag	UNP P50870
C	1	GLY	-	expression tag	UNP P50870

- Molecule 2 is 2-methyl-1 {H}-benzimidazole (CCD ID: 8P7) (formula: C₈H₈N₂).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	C	1	Total	C	H	N	0	1
			18	8	8	2		
2	C	1	Total	C	H	N	0	1
			18	8	8	2		

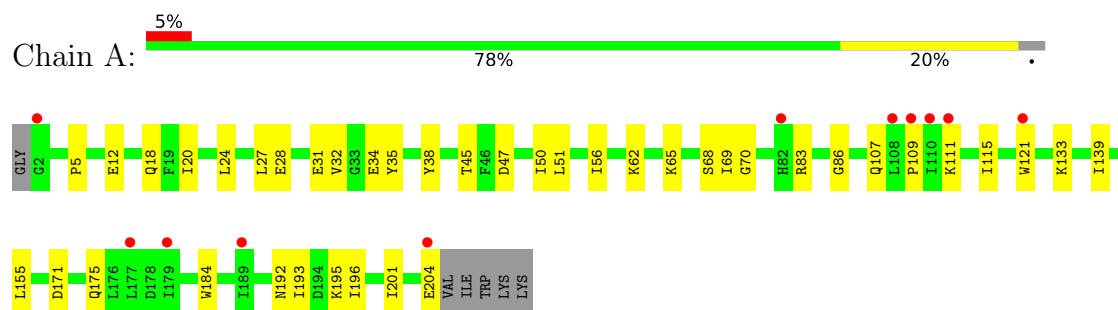
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	7	Total	O	0	7
			7	7		
3	B	5	Total	O	0	5
			5	5		
3	C	8	Total	O	0	8
			8	8		

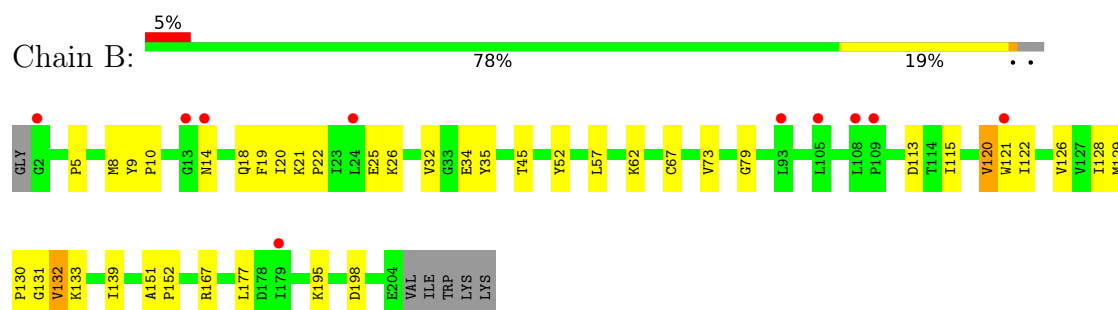
3 Residue-property plots [i](#)

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.

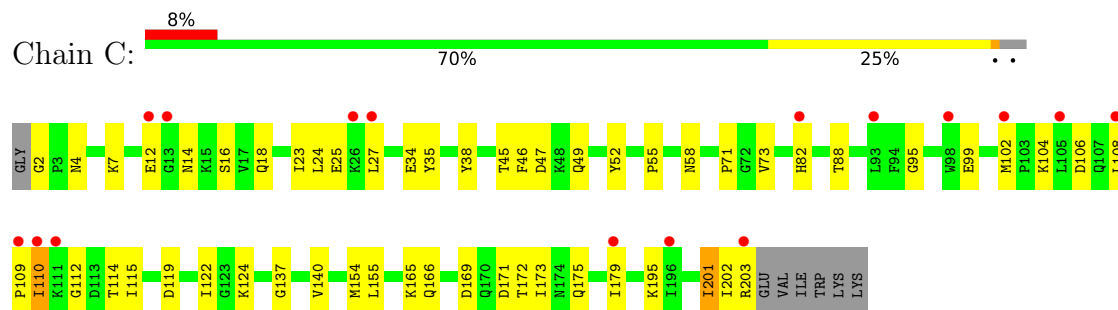
• Molecule 1: Streptogramin A acetyltransferase



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4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	44.03Å 102.00Å 145.79Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.14 – 1.96 48.14 – 1.96	Depositor EDS
% Data completeness (in resolution range)	92.8 (48.14-1.96) 93.0 (48.14-1.96)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.68 (at 1.95Å)	Xtriage
Refinement program	PHENIX 1.20.1_4487	Depositor
R, R_{free}	0.248 , 0.296 0.248 , 0.296	Depositor DCC
R_{free} test set	2189 reflections (4.53%)	wwPDB-VP
Wilson B-factor (Å ²)	38.5	Xtriage
Anisotropy	0.115	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 28.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	10242	wwPDB-VP
Average B, all atoms (Å ²)	54.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.05% 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: 8P7

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	0.76	0/1755	0.86	0/2380
1	B	0.82	0/1745	0.93	0/2368
1	C	0.65	0/1826	0.78	0/2474
All	All	0.75	0/5326	0.86	0/7222

There are no bond length outliers.

There are no bond angle outliers.

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	1687	1685	1657	35	0
1	B	1677	1671	1651	34	0
1	C	1734	1732	1681	44	0
2	C	20	16	0	1	0
3	A	7	0	0	6	0
3	B	5	0	0	4	0
3	C	8	0	0	4	0
All	All	5138	5104	4989	111	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 11.

All (111) 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:C:2:GLY:N	3:C:401[B]:HOH:O	1.93	0.99
1:A:115:ILE:HD12	1:A:133:LYS:HE3	1.56	0.85
1:A:65:LYS:NZ	3:A:301[B]:HOH:O	1.99	0.82
1:C:179:ILE:HD11	1:C:201:ILE:HD12	1.64	0.79
1:B:52[B]:TYR:OH	1:C:124[B]:LYS:HD2	1.83	0.78
1:C:102:MET:O	3:C:402[B]:HOH:O	2.02	0.76
1:A:155:LEU:HD11	3:A:307[B]:HOH:O	1.87	0.75
1:B:121[B]:TRP:CE3	1:B:139:ILE:HG23	2.25	0.71
1:C:4:ASN:HD22	1:C:7:LYS:HG3	1.55	0.70
1:B:129:MET:O	1:B:132:VAL:HG13	1.93	0.68
1:C:95:GLY:HA2	1:C:99:GLU:HG3	1.77	0.66
1:A:184:TRP:CH2	1:A:201:ILE:HD11	2.32	0.65
1:B:195:LYS:HE2	3:B:304[B]:HOH:O	1.96	0.65
1:A:5:PRO:HG3	1:A:35:TYR:CZ	2.34	0.62
1:A:195:LYS:HD3	1:A:204:GLU:OE2	1.99	0.62
1:C:108:LEU:HG	1:C:108:LEU:O	2.02	0.59
1:A:155:LEU:HD21	3:A:307[B]:HOH:O	2.01	0.58
1:C:114:THR:C	1:C:115:ILE:HD13	2.28	0.58
1:A:171:ASP:O	1:A:175:GLN:HG3	2.05	0.57
1:B:57:LEU:CD1	1:B:79[B]:GLY:HA2	2.35	0.57
1:A:109:PRO:HD2	3:A:306[B]:HOH:O	2.03	0.57
1:C:18:GLN:HE22	1:C:45:THR:HA	1.70	0.56
1:A:18:GLN:HE22	1:A:45:THR:HA	1.71	0.56
1:C:14[B]:ASN:OD1	1:C:16:SER:HB2	2.04	0.56
1:C:108:LEU:HD23	1:C:108:LEU:H	1.70	0.55
1:B:34:GLU:O	1:B:35:TYR:HB2	2.06	0.54
1:A:109:PRO:O	1:A:111:LYS:HG3	2.08	0.54
1:C:104:LYS:HG3	1:C:106:ASP:OD1	2.08	0.54
1:B:113:ASP:O	1:B:131:GLY:HA2	2.07	0.54
1:C:12:GLU:OE1	1:C:12:GLU:N	2.42	0.53
1:C:45:THR:OG1	1:C:47:ASP:OD1	2.15	0.53
1:A:184:TRP:CZ3	1:A:201:ILE:HD11	2.42	0.53
1:C:175:GLN:O	1:C:179:ILE:HG23	2.08	0.53
1:B:122[A]:ILE:HD13	1:B:128:ILE:HD11	1.91	0.53
1:A:196:ILE:HG13	1:A:201:ILE:HD12	1.93	0.51
1:A:24:LEU:HD12	1:A:32:VAL:HG21	1.93	0.51
1:A:38:TYR:HE1	1:A:70[B]:GLY:O	1.93	0.51
1:A:196:ILE:HG13	1:A:201:ILE:CD1	2.40	0.51
1:B:67:CYS:SG	1:B:120:VAL:HG13	2.51	0.51
1:B:8:MET:HE2	1:B:9:TYR:HE1	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:122[B]:ILE:CD1	1:C:140:VAL:CG2	2.89	0.50
1:A:28:GLU:HA	3:A:303[B]:HOH:O	2.11	0.50
1:A:121:TRP:CH2	1:C:82[B]:HIS:HB2	2.47	0.50
1:B:57:LEU:HD11	1:B:79[B]:GLY:HA2	1.94	0.49
1:B:8:MET:HG2	1:B:22:PRO:HB2	1.94	0.49
1:C:195:LYS:HB3	1:C:201:ILE:HG23	1.95	0.49
1:A:139:ILE:HD12	1:A:155:LEU:CD2	2.43	0.48
1:C:122[B]:ILE:HD13	1:C:140:VAL:CG2	2.43	0.48
1:B:9:TYR:HB3	3:B:301[B]:HOH:O	2.13	0.48
1:B:121[A]:TRP:CE3	1:B:139:ILE:HG23	2.49	0.48
1:A:12:GLU:HA	1:A:12:GLU:OE2	2.13	0.48
1:C:154:MET:HE3	1:C:154:MET:HA	1.95	0.48
1:C:122[B]:ILE:CD1	1:C:140:VAL:HG21	2.44	0.48
1:B:5:PRO:HB2	1:B:34:GLU:HG3	1.96	0.47
1:B:121[B]:TRP:CE3	1:B:139:ILE:CG2	2.97	0.47
1:A:20:ILE:CG2	1:A:24:LEU:HD12	2.45	0.47
1:C:154:MET:HE3	1:C:165:LYS:O	2.15	0.47
1:A:34:GLU:O	1:A:35:TYR:HB2	2.15	0.46
1:B:62:LYS:HB2	1:B:62:LYS:HZ3	1.80	0.46
1:A:68:SER:C	1:A:69[B]:ILE:HD13	2.41	0.46
1:B:21:LYS:HB3	1:B:22:PRO:HD3	1.96	0.46
1:A:38:TYR:CE1	1:A:70[B]:GLY:O	2.69	0.46
1:C:169:ASP:OD1	1:C:172:THR:OG1	2.32	0.46
1:B:115:ILE:O	1:B:133:LYS:HA	2.16	0.45
1:C:82[B]:HIS:ND1	1:C:88:THR:O	2.50	0.45
1:C:24:LEU:HD22	1:C:27:LEU:CD1	2.46	0.45
1:A:20:ILE:HG22	1:A:24:LEU:HD12	1.98	0.45
1:C:52[B]:TYR:CZ	2:C:301[B]:8P7:C6	3.00	0.45
1:C:165:LYS:HE2	1:C:166:GLN:O	2.16	0.45
1:B:14:ASN:O	3:B:301[B]:HOH:O	2.20	0.45
1:C:169:ASP:O	1:C:173:ILE:HG13	2.16	0.45
1:B:151:ALA:HB1	1:B:152:PRO:CD	2.47	0.45
1:C:34:GLU:O	1:C:35:TYR:HB2	2.16	0.44
1:B:20:ILE:HG22	1:B:32:VAL:HG11	1.99	0.44
1:A:115:ILE:HD12	1:A:133:LYS:CE	2.38	0.44
1:B:198:ASP:C	1:B:198:ASP:OD1	2.59	0.44
1:C:16:SER:CB	3:C:404[B]:HOH:O	2.66	0.44
1:C:171:ASP:OD2	1:C:175:GLN:NE2	2.50	0.44
1:B:18:GLN:HE22	1:B:45:THR:HA	1.82	0.43
1:C:114:THR:O	1:C:115:ILE:HD13	2.18	0.43
1:C:119:ASP:O	1:C:137:GLY:HA2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:45:THR:OG1	1:A:47:ASP:OD1	2.34	0.43
1:B:73:VAL:HG21	1:B:122[B]:ILE:HG22	2.00	0.43
1:C:71[B]:PRO:HD2	1:C:124[B]:LYS:HG3	2.01	0.43
1:A:27:LEU:HD23	1:A:27:LEU:HA	1.86	0.42
1:C:202:ILE:O	1:C:203:ARG:C	2.62	0.42
1:C:110:ILE:HG23	1:C:112:GLY:H	1.84	0.42
1:B:8:MET:HE2	1:B:9:TYR:CE1	2.54	0.42
1:C:108:LEU:O	1:C:109:PRO:C	2.63	0.42
1:B:177:LEU:HD23	1:B:177:LEU:HA	1.88	0.42
1:A:86:GLY:O	1:B:167:ARG:NH2	2.45	0.41
1:B:129:MET:HB3	1:B:130:PRO:CD	2.50	0.41
1:C:25:GLU:CB	3:C:408[B]:HOH:O	2.68	0.41
1:C:55:PRO:O	1:C:58:ASN:N	2.52	0.41
1:A:20:ILE:CG2	1:A:24:LEU:CD1	2.98	0.41
1:B:20:ILE:HB	3:B:305[B]:HOH:O	2.20	0.41
1:A:83[B]:ARG:HE	1:A:107:GLN:HB3	1.86	0.41
1:C:49:GLN:HB3	1:C:73[B]:VAL:O	2.20	0.41
1:A:20:ILE:HG22	1:A:32:VAL:HG11	2.03	0.41
1:B:21:LYS:N	1:B:22:PRO:HD2	2.35	0.41
1:A:50:ILE:C	1:A:51[B]:LEU:HD23	2.46	0.40
1:A:192:ASN:O	1:A:193:ILE:C	2.63	0.40
1:B:25:GLU:O	1:B:26:LYS:HB2	2.20	0.40
1:C:45:THR:O	1:C:46:PHE:C	2.61	0.40
1:A:31:GLU:OE2	1:A:62:LYS:HD2	2.21	0.40
1:B:10:PRO:HG3	1:B:19:PHE:CE2	2.56	0.40
1:C:154:MET:CE	1:C:165:LYS:C	2.94	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	214/209 (102%)	201 (94%)	13 (6%)	0	100	100
1	B	212/209 (101%)	203 (96%)	9 (4%)	0	100	100
1	C	224/209 (107%)	214 (96%)	10 (4%)	0	100	100
All	All	650/627 (104%)	618 (95%)	32 (5%)	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	187/182 (103%)	186 (100%)	1 (0%)	81	82
1	B	185/182 (102%)	183 (99%)	2 (1%)	65	64
1	C	194/182 (107%)	190 (98%)	4 (2%)	47	41
All	All	566/546 (104%)	559 (99%)	7 (1%)	61	61

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	56	ILE
1	B	120	VAL
1	B	132	VAL
1	C	23	ILE
1	C	110	ILE
1	C	155	LEU
1	C	201	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	101	HIS
1	A	162	ASN
1	B	143	ASN

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Mol	Chain	Res	Type
1	B	166	GLN
1	B	170	GLN
1	C	4	ASN
1	C	166	GLN
1	C	174	ASN
1	C	175	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 oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

2 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	$\# Z > 2$
2	8P7	C	301[B]	-	11,11,11	1.18	0	15,15,15	1.08	2 (13%)
2	8P7	C	302[B]	-	11,11,11	1.47	2 (18%)	15,15,15	1.18	1 (6%)

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
2	8P7	C	301[B]	-	-	-	0/2/2/2
2	8P7	C	302[B]	-	-	-	0/2/2/2

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	302[B]	8P7	C3-C8	-2.46	1.36	1.40
2	C	302[B]	8P7	C7-C8	2.01	1.43	1.40

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	301[B]	8P7	C1-C2-N1	2.57	126.73	122.81
2	C	302[B]	8P7	N1-C2-N2	-2.51	108.76	112.33
2	C	301[B]	8P7	C1-C2-N2	-2.08	121.79	124.80

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
2	C	301[B]	8P7	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	203/209 (97%)	0.58	11 (5%) 31 37	16, 50, 84, 117	10 (4%)
1	B	203/209 (97%)	0.47	10 (4%) 35 41	15, 45, 82, 105	8 (3%)
1	C	202/209 (96%)	0.74	16 (7%) 18 21	13, 52, 91, 129	18 (8%)
All	All	608/627 (96%)	0.60	37 (6%) 27 31	13, 50, 88, 129	36 (5%)

All (37) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	108	LEU	4.5
1	C	13[A]	GLY	4.5
1	B	108	LEU	4.0
1	A	110	ILE	4.0
1	C	179	ILE	3.8
1	A	109	PRO	3.7
1	C	105	LEU	3.7
1	A	108	LEU	3.3
1	B	105	LEU	3.0
1	C	98	TRP	2.8
1	C	109	PRO	2.8
1	B	121[A]	TRP	2.8
1	B	13	GLY	2.7
1	C	110	ILE	2.6
1	A	179	ILE	2.5
1	B	2	GLY	2.5
1	C	111	LYS	2.4
1	A	121	TRP	2.4
1	B	24	LEU	2.4
1	C	203	ARG	2.4
1	B	109	PRO	2.4
1	A	2	GLY	2.4
1	C	27	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	204	GLU	2.4
1	C	102	MET	2.4
1	A	177	LEU	2.3
1	C	82[A]	HIS	2.3
1	C	196	ILE	2.3
1	B	93	LEU	2.2
1	C	12	GLU	2.2
1	C	26	LYS	2.2
1	C	93	LEU	2.1
1	A	82[A]	HIS	2.1
1	B	14	ASN	2.1
1	A	189	ILE	2.1
1	B	179	ILE	2.0
1	A	111	LYS	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](#)

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
2	8P7	C	301[B]	10/10	0.76	0.19	40,55,71,72	18
2	8P7	C	302[B]	10/10	0.82	0.32	42,53,69,71	18

6.5 Other polymers [i](#)

There are no such residues in this entry.