



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 4, 2024 – 11:39 PM EST

PDB ID : 2CWM
Title : Native Crystal Structure of NO releasing inductive lectin from seeds of the
Canavalia maritima (ConM)
Authors : Cavada, B.S.; De Azevedo Jr., W.F.; Assreuy, A.M.S.; Criddle, D.N.; Gadelha,
C.A.A.; Delatorre, P.; Souza, E.P.; Rocha, B.A.M.; Santi-Gadelha, T.;
Moreno, F.B.M.B.
Deposited on : 2005-06-22
Resolution : 1.95 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 : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.36
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

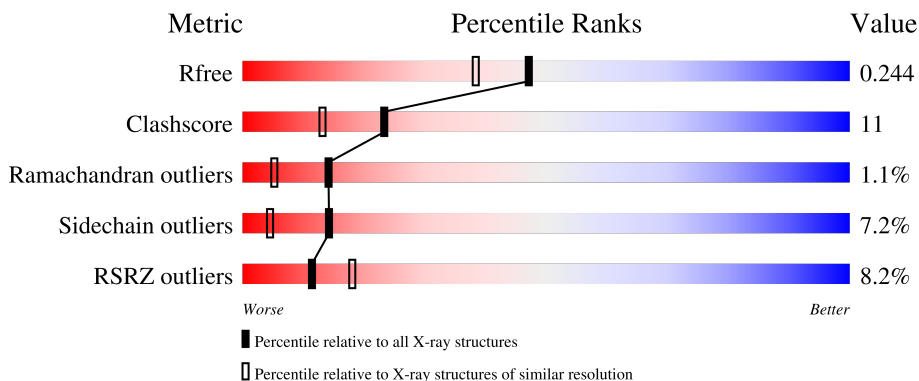
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.95 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2580 (1.96-1.96)
Clashscore	141614	2705 (1.96-1.96)
Ramachandran outliers	138981	2678 (1.96-1.96)
Sidechain outliers	138945	2678 (1.96-1.96)
RSRZ outliers	127900	2539 (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	237	 9% 74% 21% 5%
1	D	237	 8% 76% 17% 6%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 3840 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 lectin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	237	1801	1135	302	363	1	0	0	0
1	D	237	1801	1135	302	363	1	0	0	0

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

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

- Molecule 3 is MANGANESE (II) ION (three-letter code: MN) (formula: Mn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total 1	Mn 1	0	0
3	D	1	Total 1	Mn 1	0	0

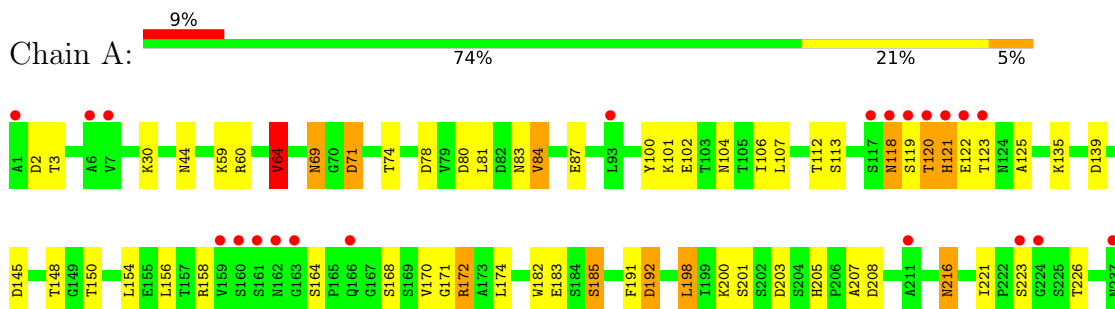
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	102	Total 102	O 102	0	0
4	D	132	Total 132	O 132	0	0

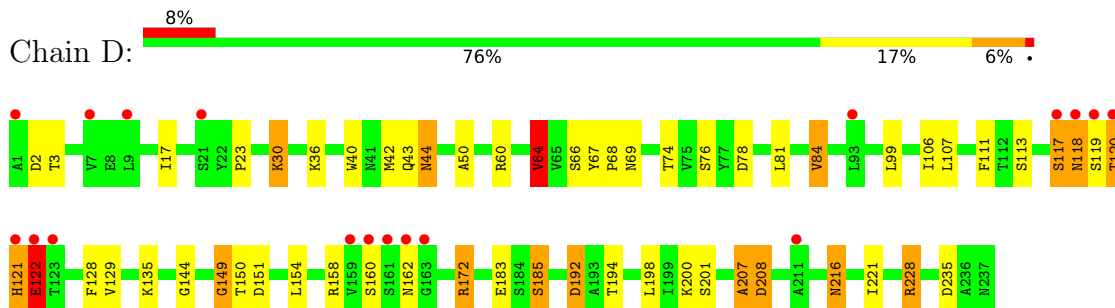
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: lectin



- Molecule 1: lectin



4 Data and refinement statistics i

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	67.92Å 97.62Å 71.02Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	24.40 – 1.95 24.40 – 1.95	Depositor EDS
% Data completeness (in resolution range)	97.5 (24.40-1.95) 97.5 (24.40-1.95)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	7.05 (at 1.95Å)	Xtrriage
Refinement program	REFMAC 5.2.0003	Depositor
R, R_{free}	0.189 , 0.237 0.201 , 0.244	Depositor DCC
R_{free} test set	1712 reflections (4.88%)	wwPDB-VP
Wilson B-factor (Å ²)	15.9	Xtrriage
Anisotropy	0.218	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.48 , 59.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.013 for l,-k,h	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3840	wwPDB-VP
Average B, all atoms (Å ²)	19.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 66.94 % 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 5.5781e-06. 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: CA, MN

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	0.98	0/1842	1.05	8/2509 (0.3%)
1	D	1.03	2/1842 (0.1%)	1.20	13/2509 (0.5%)
All	All	1.00	2/3684 (0.1%)	1.13	21/5018 (0.4%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	5
1	D	0	5
All	All	0	10

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	172	ARG	CD-NE	-6.52	1.35	1.46
1	D	30	LYS	CE-NZ	5.85	1.63	1.49

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	172	ARG	NE-CZ-NH2	-16.07	112.27	120.30
1	D	228	ARG	NE-CZ-NH1	15.85	128.22	120.30
1	D	228	ARG	NE-CZ-NH2	-13.86	113.37	120.30
1	D	172	ARG	NE-CZ-NH1	10.85	125.73	120.30
1	A	172	ARG	NE-CZ-NH2	-9.69	115.45	120.30
1	D	64	VAL	CB-CA-C	-8.28	95.67	111.40
1	A	64	VAL	CB-CA-C	-7.81	96.55	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	30	LYS	CD-CE-NZ	7.73	129.47	111.70
1	A	172	ARG	NE-CZ-NH1	7.17	123.88	120.30
1	D	208	ASP	N-CA-C	6.78	129.31	111.00
1	D	192	ASP	CB-CG-OD2	6.55	124.19	118.30
1	D	235	ASP	CB-CG-OD2	6.40	124.06	118.30
1	A	145	ASP	CB-CG-OD2	6.35	124.02	118.30
1	A	71	ASP	CB-CG-OD2	6.15	123.83	118.30
1	A	208	ASP	N-CA-C	6.06	127.36	111.00
1	D	64	VAL	CG1-CB-CG2	5.88	120.31	110.90
1	A	139	ASP	CB-CG-OD1	5.57	123.31	118.30
1	D	228	ARG	CD-NE-CZ	5.37	131.11	123.60
1	D	192	ASP	CB-CG-OD1	-5.23	113.59	118.30
1	D	78	ASP	CB-CG-OD2	5.23	123.00	118.30
1	A	78	ASP	CB-CG-OD2	5.07	122.86	118.30

There are no chirality outliers.

All (10) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	122	GLU	Peptide
1	A	123	THR	Peptide
1	A	148	THR	Peptide
1	A	207	ALA	Mainchain,Peptide
1	D	118	ASN	Peptide
1	D	122	GLU	Peptide
1	D	149	GLY	Peptide
1	D	207	ALA	Mainchain,Peptide

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	1801	0	1748	43	0
1	D	1801	0	1748	39	1
2	A	1	0	0	0	0
2	D	1	0	0	0	0
3	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	D	1	0	0	0	0
4	A	102	0	0	11	1
4	D	132	0	0	8	0
All	All	3840	0	3496	80	2

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 (80) 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:113:SER:HB2	4:D:415:HOH:O	1.41	1.20
1:A:113:SER:HB2	4:A:454:HOH:O	0.96	1.13
1:D:228:ARG:HD2	4:D:438:HOH:O	1.57	1.05
1:D:44:ASN:HD21	1:D:201:SER:H	1.14	0.95
1:A:60:ARG:CZ	4:A:427:HOH:O	2.20	0.89
1:A:44:ASN:HD21	1:A:201:SER:H	1.17	0.88
1:A:60:ARG:NH2	4:A:427:HOH:O	2.14	0.80
1:A:83:ASN:HB2	4:A:443:HOH:O	1.82	0.79
1:A:183:GLU:OE2	1:A:185:SER:HB2	1.89	0.72
1:D:3:THR:HG23	1:D:30:LYS:HE2	1.73	0.71
1:D:3:THR:HG23	1:D:30:LYS:CE	2.20	0.70
1:D:17:ILE:HD13	1:D:228:ARG:HD3	1.73	0.70
1:D:2:ASP:HB3	1:D:216:ASN:HD21	1.55	0.70
1:A:3:THR:HG23	1:A:30:LYS:CE	2.22	0.70
1:A:120:THR:HG22	1:A:121:HIS:H	1.57	0.69
1:D:160:SER:OG	1:D:162:ASN:OD1	2.09	0.69
1:A:80:ASP:O	4:A:443:HOH:O	2.13	0.66
1:A:3:THR:HG23	1:A:30:LYS:HE2	1.77	0.65
1:A:59:LYS:O	4:A:426:HOH:O	2.15	0.65
1:A:44:ASN:HD21	1:A:201:SER:N	1.94	0.64
1:A:113:SER:CB	4:A:454:HOH:O	1.81	0.64
1:D:2:ASP:CB	1:D:216:ASN:HD21	2.11	0.62
1:D:42:MET:HE1	4:D:473:HOH:O	2.00	0.61
1:A:3:THR:H	1:A:216:ASN:ND2	2.01	0.59
1:D:221:ILE:HD12	4:D:453:HOH:O	2.02	0.59
1:A:3:THR:HG23	1:A:30:LYS:HE3	1.87	0.57
1:D:43:GLN:NE2	4:D:381:HOH:O	2.35	0.57
1:A:192:ASP:HB2	4:A:413:HOH:O	2.07	0.55
1:A:83:ASN:ND2	4:A:443:HOH:O	2.40	0.55
1:D:119:SER:HB2	1:D:122:GLU:CG	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3:THR:HG23	1:D:30:LYS:HE3	1.88	0.54
1:D:216:ASN:H	1:D:216:ASN:HD22	1.54	0.54
1:A:60:ARG:NE	4:A:427:HOH:O	2.38	0.52
1:A:102:GLU:OE2	1:A:104:ASN:ND2	2.38	0.51
1:A:81:LEU:HA	1:A:84:VAL:HG13	1.93	0.51
1:A:69:ASN:ND2	1:A:71:ASP:H	2.09	0.50
1:D:144:GLY:N	4:D:453:HOH:O	2.45	0.49
1:A:44:ASN:ND2	1:A:200:LYS:HA	2.27	0.49
1:A:83:ASN:CB	4:A:443:HOH:O	2.52	0.49
1:D:3:THR:H	1:D:216:ASN:ND2	2.10	0.48
1:D:44:ASN:HD21	1:D:201:SER:N	1.97	0.48
1:D:44:ASN:ND2	1:D:200:LYS:HA	2.28	0.48
1:D:120:THR:HG22	1:D:121:HIS:H	1.78	0.48
1:A:156:LEU:O	1:A:171:GLY:HA3	2.15	0.47
1:D:172:ARG:HD2	1:D:221:ILE:CG1	2.44	0.47
1:A:174:LEU:HD12	1:A:174:LEU:N	2.30	0.46
1:D:81:LEU:HA	1:D:84:VAL:HG13	1.95	0.46
1:A:87:GLU:HG3	1:A:182:TRP:O	2.15	0.46
1:A:100:TYR:HB3	1:A:205:HIS:O	2.16	0.46
1:A:172:ARG:HD2	1:A:221:ILE:CG1	2.46	0.45
1:A:216:ASN:H	1:A:216:ASN:HD22	1.65	0.45
1:D:64:VAL:HG13	1:D:74:THR:OG1	2.16	0.45
1:A:119:SER:O	1:A:120:THR:O	2.35	0.44
1:A:2:ASP:HB3	1:A:216:ASN:HD21	1.82	0.44
1:D:23:PRO:HB2	1:D:40:TRP:O	2.17	0.44
1:D:172:ARG:HD2	1:D:221:ILE:HG13	2.00	0.44
1:A:3:THR:H	1:A:216:ASN:HD22	1.66	0.43
1:D:119:SER:HB2	1:D:122:GLU:HG3	2.00	0.43
1:A:120:THR:HG22	1:A:121:HIS:N	2.27	0.43
1:D:68:PRO:HD2	4:D:441:HOH:O	2.17	0.43
1:A:2:ASP:CB	1:A:216:ASN:HD21	2.31	0.43
1:A:170:VAL:HB	1:A:226:THR:HG22	1.99	0.43
1:A:125:ALA:HB3	1:D:129:VAL:HG12	2.01	0.42
1:D:149:GLY:O	1:D:151:ASP:N	2.50	0.42
1:A:101:LYS:NZ	1:A:203:ASP:OD2	2.50	0.42
1:D:67:TYR:HB3	4:D:441:HOH:O	2.19	0.42
1:D:107:LEU:N	1:D:107:LEU:HD12	2.34	0.41
1:D:183:GLU:OE2	1:D:185:SER:HB2	2.20	0.41
1:A:125:ALA:HB3	1:D:129:VAL:CG1	2.50	0.41
1:D:60:ARG:HD3	1:D:76:SER:HB3	2.02	0.41
1:D:111:PHE:HB3	1:D:128:PHE:CZ	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:106:ILE:HB	1:A:154:LEU:HB3	2.03	0.41
1:A:198:LEU:HD12	1:A:198:LEU:C	2.42	0.41
1:D:117:SER:HB2	1:D:122:GLU:OE2	2.21	0.41
1:D:50:ALA:O	1:D:194:THR:HA	2.21	0.40
1:D:106:ILE:HB	1:D:154:LEU:HB3	2.03	0.40
1:A:107:LEU:N	1:A:107:LEU:HD12	2.36	0.40
1:D:207:ALA:HA	1:D:208:ASP:HA	1.96	0.40
1:A:64:VAL:HG13	1:A:74:THR:OG1	2.21	0.40
1:A:112:THR:O	1:A:191:PHE:HA	2.21	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:426:HOH:O	4:A:427:HOH:O[2_755]	2.00	0.20
1:D:66:SER:OG	1:D:118:ASN:ND2[2_755]	2.09	0.11

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	235/237 (99%)	223 (95%)	9 (4%)	3 (1%)	12 3
1	D	235/237 (99%)	221 (94%)	12 (5%)	2 (1%)	17 8
All	All	470/474 (99%)	444 (94%)	21 (4%)	5 (1%)	14 5

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	120	THR
1	A	150	THR
1	D	120	THR

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Mol	Chain	Res	Type
1	D	150	THR
1	A	118	ASN

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	202/202 (100%)	188 (93%)	14 (7%)	15 5
1	D	202/202 (100%)	187 (93%)	15 (7%)	13 4
All	All	404/404 (100%)	375 (93%)	29 (7%)	14 4

All (29) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	64	VAL
1	A	69	ASN
1	A	84	VAL
1	A	118	ASN
1	A	121	HIS
1	A	135	LYS
1	A	158	ARG
1	A	164	SER
1	A	168	SER
1	A	185	SER
1	A	192	ASP
1	A	198	LEU
1	A	216	ASN
1	A	223	SER
1	D	36	LYS
1	D	44	ASN
1	D	64	VAL
1	D	69	ASN
1	D	84	VAL
1	D	99	LEU
1	D	117	SER

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Mol	Chain	Res	Type
1	D	121	HIS
1	D	122	GLU
1	D	135	LYS
1	D	158	ARG
1	D	185	SER
1	D	192	ASP
1	D	198	LEU
1	D	216	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	43	GLN
1	A	44	ASN
1	A	69	ASN
1	A	118	ASN
1	A	216	ASN
1	A	237	ASN
1	D	43	GLN
1	D	44	ASN
1	D	69	ASN
1	D	132	GLN
1	D	166	GLN
1	D	216	ASN
1	D	237	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry

Of 4 ligands modelled in this entry, 4 are monoatomic - leaving 0 for Mogul analysis.

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.

No monomer is involved in short contacts.

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

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	237/237 (100%)	0.43	21 (8%) 9 15	10, 19, 35, 54	0
1	D	237/237 (100%)	0.25	18 (7%) 13 21	8, 15, 31, 55	0
All	All	474/474 (100%)	0.34	39 (8%) 11 18	8, 17, 33, 55	0

All (39) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	118	ASN	8.1
1	D	120	THR	6.5
1	A	120	THR	6.4
1	D	122	GLU	5.4
1	D	119	SER	5.3
1	A	162	ASN	5.1
1	A	118	ASN	4.8
1	A	122	GLU	4.5
1	A	161	SER	4.4
1	D	162	ASN	4.3
1	A	121	HIS	4.1
1	D	121	HIS	3.9
1	A	119	SER	3.8
1	A	1	ALA	3.2
1	A	211	ALA	3.1
1	A	159	VAL	3.1
1	A	160	SER	3.0
1	D	161	SER	3.0
1	A	163	GLY	2.9
1	A	224	GLY	2.9
1	D	211	ALA	2.8
1	A	117	SER	2.8
1	A	166	GLN	2.5
1	D	159	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
1	D	117	SER	2.4
1	D	93	LEU	2.3
1	A	237	ASN	2.3
1	D	163	GLY	2.2
1	D	1	ALA	2.2
1	D	7	VAL	2.2
1	D	9	LEU	2.2
1	A	7	VAL	2.2
1	A	223	SER	2.1
1	A	6	ALA	2.1
1	D	123	THR	2.1
1	D	160	SER	2.1
1	A	123	THR	2.0
1	A	93	LEU	2.0
1	D	21	SER	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q < 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q < 0.9
3	MN	A	240	1/1	0.98	0.05	19,19,19,19	0
2	CA	D	1003	1/1	0.99	0.06	12,12,12,12	0
2	CA	A	1003	1/1	0.99	0.05	20,20,20,20	0
3	MN	D	239	1/1	1.00	0.06	12,12,12,12	0

6.5 Other polymers [i](#)

There are no such residues in this entry.