



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 03:37 PM UTC

PDB ID : 8AQ0 / pdb_00008aq0
Title : Crystal structure of L-N-Carbamoylase from Sinorhizobium meliloti mutant L217G/F329C
Authors : Rozeboom, H.J.; Mayer, C.
Deposited on : 2022-08-11
Resolution : 2.30 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

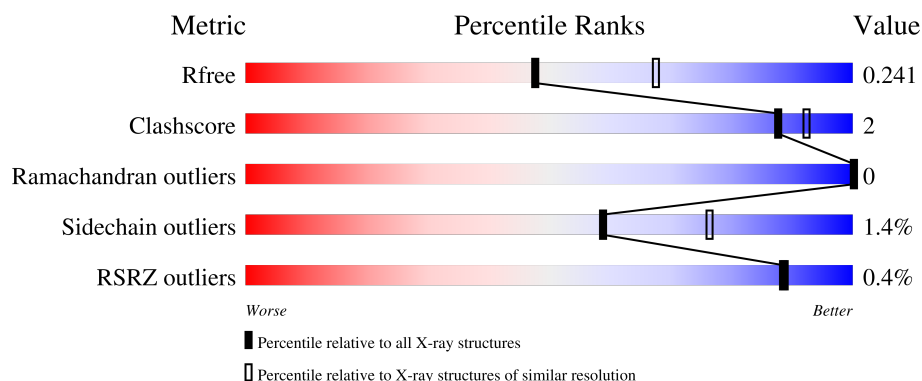
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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	6319 (2.30-2.30)
Clashscore	190562	6919 (2.30-2.30)
Ramachandran outliers	187476	6854 (2.30-2.30)
Sidechain outliers	187428	6854 (2.30-2.30)
RSRZ outliers	180081	6325 (2.30-2.30)

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	437	 85% 9% 6%
1	B	437	 87% 7% 6%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 6354 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-carbamoyl-L-amino-acid hydrolase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	410	Total	C	N	O	S	0	0	0
			3094	1931	550	587	26			
1	B	410	Total	C	N	O	S	0	0	0
			3094	1931	550	587	26			

There are 46 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-20	MET	-	initiating methionine	UNP Q6DTN4
A	-19	GLY	-	expression tag	UNP Q6DTN4
A	-18	SER	-	expression tag	UNP Q6DTN4
A	-17	SER	-	expression tag	UNP Q6DTN4
A	-16	HIS	-	expression tag	UNP Q6DTN4
A	-15	HIS	-	expression tag	UNP Q6DTN4
A	-14	HIS	-	expression tag	UNP Q6DTN4
A	-13	HIS	-	expression tag	UNP Q6DTN4
A	-12	HIS	-	expression tag	UNP Q6DTN4
A	-11	HIS	-	expression tag	UNP Q6DTN4
A	-10	GLY	-	expression tag	UNP Q6DTN4
A	-9	SER	-	expression tag	UNP Q6DTN4
A	-8	GLY	-	expression tag	UNP Q6DTN4
A	-7	LEU	-	expression tag	UNP Q6DTN4
A	-6	VAL	-	expression tag	UNP Q6DTN4
A	-5	PRO	-	expression tag	UNP Q6DTN4
A	-4	ARG	-	expression tag	UNP Q6DTN4
A	-3	GLY	-	expression tag	UNP Q6DTN4
A	-2	SER	-	expression tag	UNP Q6DTN4
A	-1	ALA	-	expression tag	UNP Q6DTN4
A	0	GLY	-	expression tag	UNP Q6DTN4
A	217	GLY	LEU	engineered mutation	UNP Q6DTN4
A	329	CYS	PHE	engineered mutation	UNP Q6DTN4
B	-20	MET	-	initiating methionine	UNP Q6DTN4
B	-19	GLY	-	expression tag	UNP Q6DTN4

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-18	SER	-	expression tag	UNP Q6DTN4
B	-17	SER	-	expression tag	UNP Q6DTN4
B	-16	HIS	-	expression tag	UNP Q6DTN4
B	-15	HIS	-	expression tag	UNP Q6DTN4
B	-14	HIS	-	expression tag	UNP Q6DTN4
B	-13	HIS	-	expression tag	UNP Q6DTN4
B	-12	HIS	-	expression tag	UNP Q6DTN4
B	-11	HIS	-	expression tag	UNP Q6DTN4
B	-10	GLY	-	expression tag	UNP Q6DTN4
B	-9	SER	-	expression tag	UNP Q6DTN4
B	-8	GLY	-	expression tag	UNP Q6DTN4
B	-7	LEU	-	expression tag	UNP Q6DTN4
B	-6	VAL	-	expression tag	UNP Q6DTN4
B	-5	PRO	-	expression tag	UNP Q6DTN4
B	-4	ARG	-	expression tag	UNP Q6DTN4
B	-3	GLY	-	expression tag	UNP Q6DTN4
B	-2	SER	-	expression tag	UNP Q6DTN4
B	-1	ALA	-	expression tag	UNP Q6DTN4
B	0	GLY	-	expression tag	UNP Q6DTN4
B	217	GLY	LEU	engineered mutation	UNP Q6DTN4
B	329	CYS	PHE	engineered mutation	UNP Q6DTN4

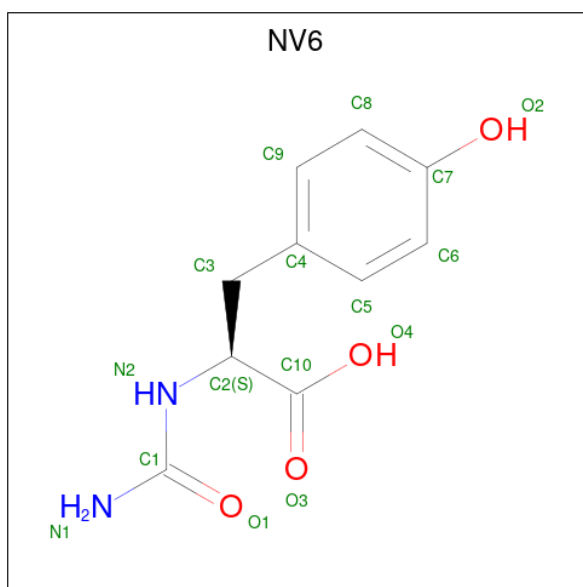
- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	2	Total Zn 2 2	0	0
2	B	2	Total Zn 2 2	0	0

- Molecule 3 is FE (III) ION (CCD ID: FE) (formula: Fe).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	2	Total Fe 2 2	0	0
3	B	2	Total Fe 2 2	0	0

- Molecule 4 is (2 {S})-2-(aminocarbonylamino)-3-(4-hydroxyphenyl)propanoic acid (CCD ID: NV6) (formula: C₁₀H₁₂N₂O₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	N	O	0	0
			16	10	2	4		
4	B	1	Total	C	N	O	0	0
			16	10	2	4		

- Molecule 5 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	1	Total	Cl	0	0
			1	1		

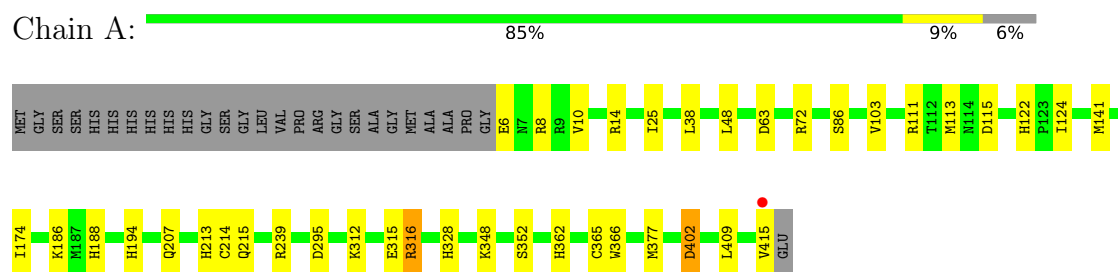
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	63	Total	O	0	0
			63	63		
6	B	62	Total	O	0	0
			62	62		

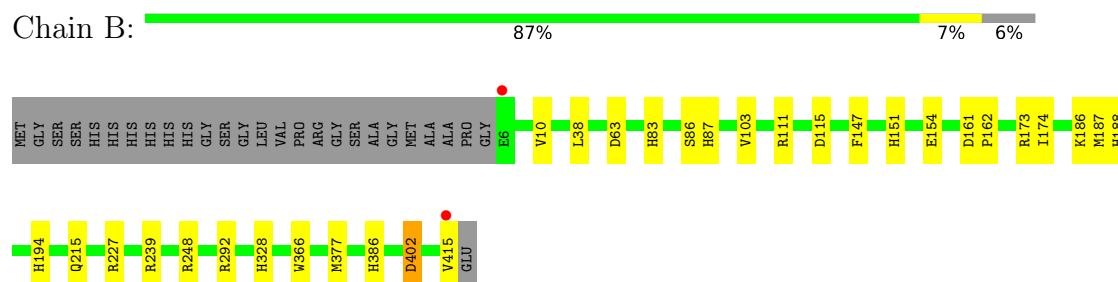
3 Residue-property plots

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-carbamoyl-L-amino-acid hydrolase



- Molecule 1: N-carbamoyl-L-amino-acid hydrolase



4 Data and refinement statistics

Property	Value	Source
Space group	I 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	132.57Å 42.05Å 137.21Å 90.00° 94.78° 90.00°	Depositor
Resolution (Å)	99.23 – 2.30 99.23 – 2.30	Depositor EDS
% Data completeness (in resolution range)	98.5 (99.23-2.30) 98.5 (99.23-2.30)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.44 (at 2.29Å)	Xtriage
Refinement program	REFMAC 5.8.0352	Depositor
R, R_{free}	0.173 , 0.238 0.180 , 0.241	Depositor DCC
R_{free} test set	1807 reflections (5.29%)	wwPDB-VP
Wilson B-factor (Å ²)	43.0	Xtriage
Anisotropy	0.658	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 30.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.000 for l,-k,h	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	6354	wwPDB-VP
Average B, all atoms (Å ²)	50.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.55% 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](#)

Bond lengths and bond angles in the following residue types are not validated in this section: CL, NV6, ZN, FE

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	0.72	5/3159 (0.2%)	1.05	4/4278 (0.1%)
1	B	0.72	5/3159 (0.2%)	1.06	4/4278 (0.1%)
All	All	0.72	10/6318 (0.2%)	1.05	8/8556 (0.1%)

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	B	0	6
All	All	0	11

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	328	HIS	CE1-NE2	6.13	1.38	1.32
1	B	386	HIS	CE1-NE2	5.76	1.38	1.32
1	A	362	HIS	CE1-NE2	5.70	1.38	1.32
1	B	151	HIS	CE1-NE2	5.67	1.38	1.32
1	B	87	HIS	CE1-NE2	5.62	1.38	1.32
1	A	213	HIS	CE1-NE2	5.51	1.38	1.32
1	B	188	HIS	CE1-NE2	5.49	1.38	1.32
1	A	188	HIS	CE1-NE2	5.24	1.37	1.32
1	A	122	HIS	CE1-NE2	5.17	1.37	1.32
1	A	328	HIS	CE1-NE2	5.16	1.37	1.32

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	63	ASP	CA-CB-CG	6.64	119.24	112.60
1	A	63	ASP	CA-CB-CG	6.43	119.03	112.60
1	B	115	ASP	CA-CB-CG	6.38	118.98	112.60
1	A	115	ASP	CA-CB-CG	6.16	118.75	112.60
1	B	402	ASP	CA-CB-CG	5.91	118.51	112.60
1	A	402	ASP	CA-CB-CG	5.42	118.02	112.60
1	A	295	ASP	CA-CB-CG	5.21	117.81	112.60
1	B	151	HIS	CA-CB-CG	5.06	118.86	113.80

There are no chirality outliers.

All (11) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	111	ARG	Sidechain
1	A	14	ARG	Sidechain
1	A	239	ARG	Sidechain
1	A	316	ARG	Sidechain
1	A	8	ARG	Sidechain
1	B	111	ARG	Sidechain
1	B	173	ARG	Sidechain
1	B	227	ARG	Sidechain
1	B	239	ARG	Sidechain
1	B	248	ARG	Sidechain
1	B	292	ARG	Sidechain

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	3094	0	3019	15	0
1	B	3094	0	3019	8	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
3	A	2	0	0	0	0
3	B	2	0	0	0	0
4	A	16	0	0	2	0
4	B	16	0	0	0	0
5	B	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	A	63	0	0	0	0
6	B	62	0	0	0	0
All	All	6354	0	6038	24	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 2.

All (24) 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:A:113:MET:HE1	1:A:124:ILE:HD12	1.70	0.72
1:A:10:VAL:HG22	1:A:402:ASP:OD1	2.07	0.55
1:B:10:VAL:HG22	1:B:402:ASP:OD1	2.10	0.51
1:B:194:HIS:O	1:B:377:MET:HA	2.12	0.49
1:A:194:HIS:O	1:A:377:MET:HA	2.12	0.48
1:A:72:ARG:NH1	1:A:113:MET:HE2	2.29	0.48
1:A:6:GLU:HG3	1:A:348:LYS:O	2.13	0.47
1:A:207:GLN:NE2	1:A:352:SER:H	2.12	0.47
1:B:147:PHE:CZ	1:B:187:MET:HE3	2.49	0.47
1:A:86:SER:HB3	1:A:103:VAL:HG23	1.96	0.47
1:A:207:GLN:HE21	1:A:352:SER:H	1.62	0.47
1:A:312:LYS:O	1:A:316:ARG:HG3	2.15	0.47
1:B:83:HIS:CD2	1:B:187:MET:HG2	2.50	0.46
1:B:86:SER:HB3	1:B:103:VAL:HG23	1.97	0.45
1:A:113:MET:HE1	1:A:124:ILE:CD1	2.44	0.45
1:A:214:CYS:SG	1:A:365:CYS:SG	3.16	0.44
1:B:366:TRP:HA	1:B:366:TRP:CE3	2.53	0.43
1:A:38:LEU:HA	1:A:174:ILE:HD13	1.99	0.43
4:A:505:NV6:C5	4:A:505:NV6:C10	2.96	0.43
1:A:141:MET:SD	4:A:505:NV6:C9	3.06	0.43
1:A:25:ILE:HD11	1:A:48:LEU:HD22	2.00	0.43
1:B:38:LEU:HA	1:B:174:ILE:HD13	2.01	0.42
1:A:366:TRP:CE3	1:A:366:TRP:HA	2.55	0.41
1:B:161:ASP:HB2	1:B:162:PRO:CD	2.50	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	408/437 (93%)	400 (98%)	8 (2%)	0	100	100
1	B	408/437 (93%)	400 (98%)	8 (2%)	0	100	100
All	All	816/874 (93%)	800 (98%)	16 (2%)	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	320/338 (95%)	315 (98%)	5 (2%)	55	73
1	B	320/338 (95%)	316 (99%)	4 (1%)	61	77
All	All	640/676 (95%)	631 (99%)	9 (1%)	59	76

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	186	LYS
1	A	215	GLN
1	A	315	GLU
1	A	409	LEU
1	A	415	VAL
1	B	154	GLU
1	B	186	LYS
1	B	215	GLN

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Mol	Chain	Res	Type
1	B	415	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	151	HIS
1	A	207	GLN
1	A	328	HIS
1	B	197	GLN
1	B	328	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 11 ligands modelled in this entry, 9 are monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
4	NV6	A	505	3,2	16,16,16	1.12	1 (6%)	20,21,21	1.73	5 (25%)
4	NV6	B	505	3,2	16,16,16	1.08	1 (6%)	20,21,21	1.63	4 (20%)

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
4	NV6	A	505	3,2	-	7/12/12/12	0/1/1/1
4	NV6	B	505	3,2	-	5/12/12/12	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	505	NV6	C2-N2	2.86	1.51	1.45
4	A	505	NV6	C2-N2	2.53	1.51	1.45

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	505	NV6	O1-C1-N1	-3.71	115.70	123.18
4	B	505	NV6	O1-C1-N1	-3.58	115.97	123.18
4	B	505	NV6	C4-C3-C2	3.57	122.85	113.36
4	A	505	NV6	C4-C3-C2	3.36	122.31	113.36
4	A	505	NV6	C9-C4-C5	-2.46	114.57	118.23
4	B	505	NV6	C9-C4-C5	-2.20	114.96	118.23
4	A	505	NV6	C3-C2-C10	-2.19	105.24	110.45
4	B	505	NV6	C6-C5-C4	2.16	123.84	121.00
4	A	505	NV6	C8-C9-C4	2.16	123.83	121.00

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	505	NV6	C10-C2-C3-C4
4	A	505	NV6	N2-C2-C3-C4
4	B	505	NV6	N2-C2-C3-C4
4	B	505	NV6	C10-C2-C3-C4
4	A	505	NV6	O3-C10-C2-N2
4	A	505	NV6	O4-C10-C2-N2
4	A	505	NV6	O1-C1-N2-C2
4	B	505	NV6	O1-C1-N2-C2
4	B	505	NV6	N1-C1-N2-C2
4	A	505	NV6	C2-C3-C4-C9
4	B	505	NV6	C2-C3-C4-C5

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Mol	Chain	Res	Type	Atoms
4	A	505	NV6	C2-C3-C4-C5

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	505	NV6	2	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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	410/437 (93%)	-0.20	1 (0%) 91 91	35, 49, 68, 108	0
1	B	410/437 (93%)	-0.19	2 (0%) 87 87	34, 48, 66, 102	0
All	All	820/874 (93%)	-0.19	3 (0%) 88 89	34, 48, 68, 108	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	6	GLU	3.1
1	A	415	VAL	3.0
1	B	415	VAL	2.1

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
4	NV6	A	505	16/16	0.83	0.15	53,71,82,92	0
4	NV6	B	505	16/16	0.84	0.15	55,85,97,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	ZN	A	503	1/1	0.95	0.05	45,45,45,45	1
5	CL	B	506	1/1	0.96	0.14	52,52,52,52	0
3	FE	B	502	1/1	0.97	0.06	37,37,37,37	1
3	FE	A	504	1/1	0.97	0.05	39,39,39,39	1
2	ZN	B	501	1/1	0.98	0.06	41,41,41,41	1
3	FE	B	504	1/1	0.98	0.06	37,37,37,37	1
2	ZN	B	503	1/1	0.98	0.06	44,44,44,44	1
3	FE	A	502	1/1	0.98	0.07	35,35,35,35	1
2	ZN	A	501	1/1	0.98	0.06	47,47,47,47	1

6.5 Other polymers [i](#)

There are no such residues in this entry.