



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 13, 2017 – 04:41 pm GMT

PDB ID : 3VM0
Title : Assimilatory nitrite reductase (Nii3) - N226K mutant - NO2 complex from tobacco leaf
Authors : Nakano, S.; Takahashi, M.; Sakamoto, A.; Morikawa, H.; Katayanagi, K.
Deposited on : 2011-12-05
Resolution : 1.70 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 : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : trunk28620
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
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) : recalc28949

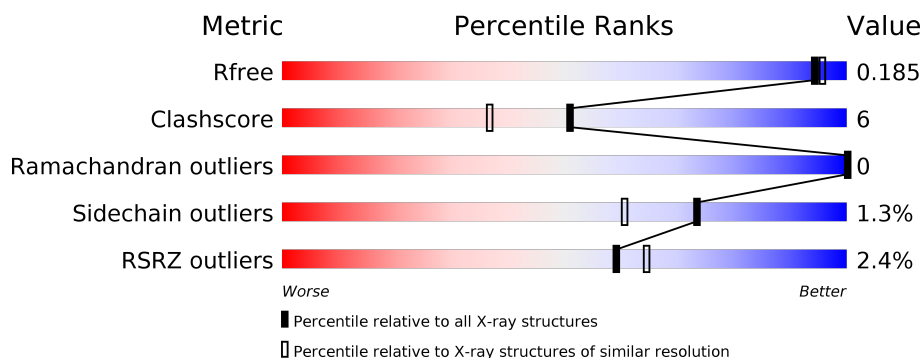
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.70 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}	100719	3453 (1.70-1.70)
Clashscore	112137	3876 (1.70-1.70)
Ramachandran outliers	110173	3815 (1.70-1.70)
Sidechain outliers	110143	3815 (1.70-1.70)
RSRZ outliers	101464	3491 (1.70-1.70)

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	584	<div> <div>2%</div> <div> <div></div> <div>83%</div> <div>9%</div> <div>8%</div> </div> </div>

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 5091 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.

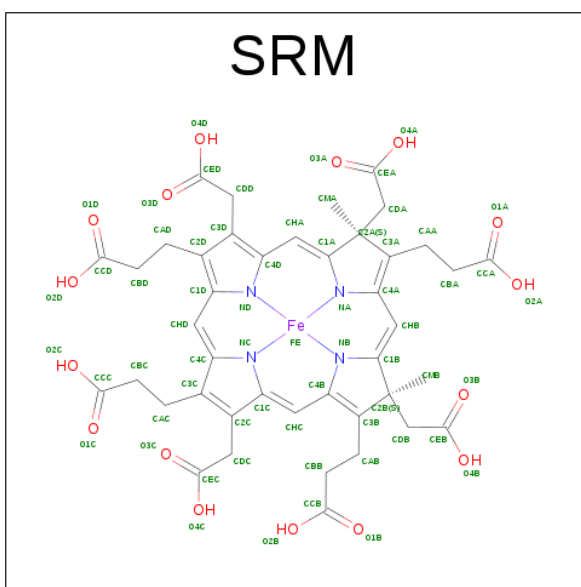
- Molecule 1 is a protein called Nitrite reductase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	538	Total	C	N	O	S	0	4	0
			4255	2687	754	790	24			

There are 24 discrepancies between the modelled and reference sequences:

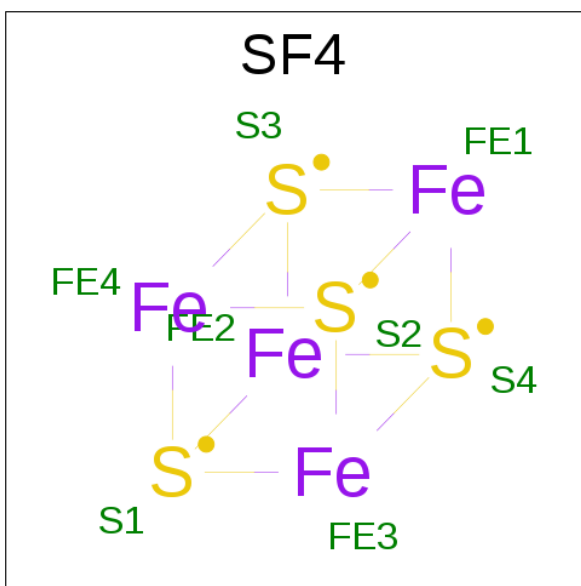
Chain	Residue	Modelled	Actual	Comment	Reference
A	-28	MET	-	EXPRESSION TAG	UNP Q76KB0
A	-27	GLY	-	EXPRESSION TAG	UNP Q76KB0
A	-26	HIS	-	EXPRESSION TAG	UNP Q76KB0
A	-25	HIS	-	EXPRESSION TAG	UNP Q76KB0
A	-24	HIS	-	EXPRESSION TAG	UNP Q76KB0
A	-23	HIS	-	EXPRESSION TAG	UNP Q76KB0
A	-22	HIS	-	EXPRESSION TAG	UNP Q76KB0
A	-21	HIS	-	EXPRESSION TAG	UNP Q76KB0
A	-20	HIS	-	EXPRESSION TAG	UNP Q76KB0
A	-19	HIS	-	EXPRESSION TAG	UNP Q76KB0
A	-18	HIS	-	EXPRESSION TAG	UNP Q76KB0
A	-17	HIS	-	EXPRESSION TAG	UNP Q76KB0
A	-16	SER	-	EXPRESSION TAG	UNP Q76KB0
A	-15	SER	-	EXPRESSION TAG	UNP Q76KB0
A	-14	GLY	-	EXPRESSION TAG	UNP Q76KB0
A	-13	HIS	-	EXPRESSION TAG	UNP Q76KB0
A	-12	ILE	-	EXPRESSION TAG	UNP Q76KB0
A	-11	GLU	-	EXPRESSION TAG	UNP Q76KB0
A	-10	GLY	-	EXPRESSION TAG	UNP Q76KB0
A	-9	ARG	-	EXPRESSION TAG	UNP Q76KB0
A	-8	HIS	-	EXPRESSION TAG	UNP Q76KB0
A	-7	MET	-	EXPRESSION TAG	UNP Q76KB0
A	226	LYS	ASN	ENGINEERED MUTATION	UNP Q76KB0
A	290	ARG	LYS	CONFLICT	UNP Q76KB0

- Molecule 2 is SIROHEME (three-letter code: SRM) (formula: C₄₂H₄₂FeN₄O₁₆).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	Fe	N	O	
			63	42	1	4	16	
								0
								0

- Molecule 3 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe_4S_4).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Fe S		
			8	4 4	0	0

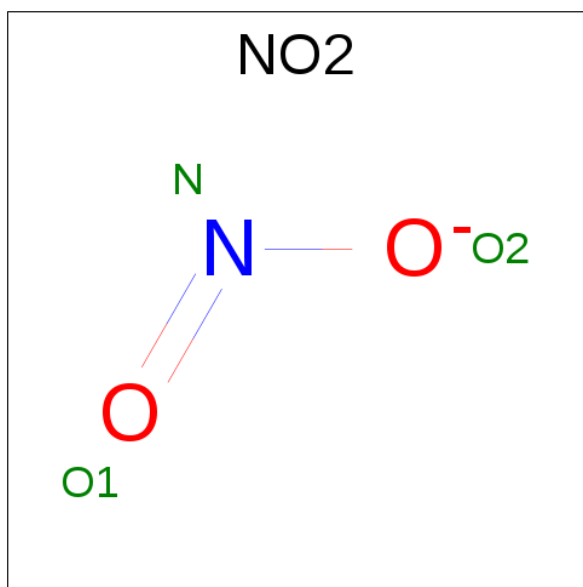
- Molecule 4 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total K 1 1	0	0

- Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	2	Total Cl 2 2	0	0

- Molecule 6 is NITRITE ION (three-letter code: NO2) (formula: NO₂).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	1	Total N O 4 1 3	0	1

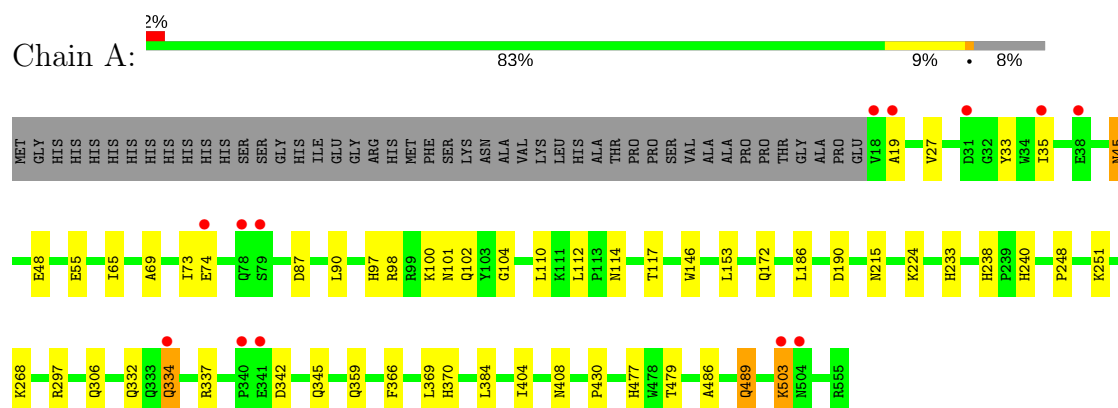
- Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	758	Total O 758 758	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 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: Nitrite reductase



4 Data and refinement statistics

Property	Value	Source
Space group	P 4 21 2	Depositor
Cell constants a, b, c, α , β , γ	133.23Å 133.23Å 77.64Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	26.76 – 1.70 25.41 – 1.69	Depositor EDS
% Data completeness (in resolution range)	100.0 (26.76-1.70) 97.8 (25.41-1.69)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.77 (at 1.70Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.163 , 0.186 0.162 , 0.185	Depositor DCC
R_{free} test set	3819 reflections (5.29%)	DCC
Wilson B-factor (Å ²)	16.7	Xtriage
Anisotropy	0.043	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 61.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5091	wwPDB-VP
Average B, all atoms (Å ²)	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.66% 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: K, SRM, SF4, NO2, CL

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	0.50	0/4360	0.61	0/5897

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	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	110	LEU	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	4255	0	4290	56	0
2	A	63	0	34	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	8	0	0	0	0
4	A	1	0	0	0	0
5	A	2	0	0	0	0
6	A	4	0	0	1	0
7	A	758	0	0	15	1
All	All	5091	0	4324	56	1

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 6.

All (56) 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:97:HIS:HE1	1:A:104:GLY:H	1.19	0.90
1:A:233:HIS:HD2	1:A:345:GLN:H	1.22	0.85
1:A:359:GLN:HE22	1:A:408:ASN:H	1.26	0.83
1:A:233:HIS:CD2	1:A:345:GLN:H	2.03	0.75
1:A:359:GLN:NE2	1:A:408:ASN:H	1.85	0.75
1:A:112:LEU:HD21	1:A:117[A]:THR:HG23	1.70	0.72
1:A:489:GLN:H	1:A:489:GLN:HE21	1.39	0.71
1:A:117[A]:THR:HG21	1:A:146:TRP:HE1	1.60	0.66
1:A:55:GLU:OE1	7:A:1192:HOH:O	2.13	0.66
1:A:117[A]:THR:HG21	1:A:146:TRP:NE1	2.12	0.64
1:A:55:GLU:OE2	7:A:1404:HOH:O	2.16	0.62
1:A:268:LYS:HB2	1:A:306:GLN:HE21	1.64	0.62
1:A:489:GLN:H	1:A:489:GLN:NE2	1.99	0.58
1:A:369:LEU:HD12	1:A:404[A]:ILE:HD11	1.86	0.57
1:A:55:GLU:OE2	7:A:1553:HOH:O	2.18	0.55
1:A:172:GLN:HE22	1:A:215:ASN:H	1.55	0.55
1:A:359:GLN:HE21	1:A:366:PHE:HB3	1.72	0.55
1:A:224:LYS:NZ	6:A:606[A]:NO2:O2	2.39	0.54
1:A:359:GLN:HE22	1:A:408:ASN:N	2.02	0.53
1:A:74:GLU:HG2	7:A:1330:HOH:O	2.07	0.53
1:A:238:HIS:HE1	7:A:1006:HOH:O	1.92	0.53
1:A:477:HIS:HD2	1:A:486:ALA:O	1.91	0.53
1:A:370:HIS:HD2	7:A:1019:HOH:O	1.91	0.52
1:A:112:LEU:HD11	1:A:117[A]:THR:CG2	2.39	0.52
1:A:27:VAL:HG21	1:A:297:ARG:HG2	1.91	0.52
1:A:33:TYR:CD1	1:A:55:GLU:HG2	2.45	0.51
1:A:112:LEU:HD11	1:A:117[A]:THR:HG22	1.92	0.50
1:A:97:HIS:CE1	1:A:104:GLY:H	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:146:TRP:HZ2	7:A:1372:HOH:O	1.94	0.50
1:A:45:ASN:ND2	1:A:48:GLU:H	2.11	0.49
1:A:238:HIS:HD2	7:A:1034:HOH:O	1.95	0.48
1:A:268:LYS:HB2	1:A:306:GLN:NE2	2.28	0.48
1:A:186:LEU:HB3	1:A:190:ASP:HB2	1.96	0.48
1:A:117[B]:THR:HG21	1:A:146:TRP:HE1	1.79	0.47
1:A:117[A]:THR:HG21	1:A:146:TRP:CD1	2.49	0.47
1:A:370:HIS:HE1	7:A:1042:HOH:O	1.97	0.47
1:A:477:HIS:HE1	7:A:1007:HOH:O	1.98	0.47
1:A:87:ASP:OD2	1:A:97:HIS:HD2	1.98	0.47
1:A:251:LYS:NZ	1:A:337:ARG:O	2.44	0.47
1:A:240:HIS:HE1	7:A:1025:HOH:O	1.97	0.46
1:A:19:ALA:HB1	7:A:1357:HOH:O	2.18	0.43
1:A:248:PRO:O	1:A:342:ASP:HB2	2.18	0.43
1:A:233:HIS:HE1	7:A:1461:HOH:O	2.02	0.42
1:A:503:LYS:H	1:A:503:LYS:HZ2	1.67	0.42
1:A:384:LEU:HD22	1:A:404[A]:ILE:CD1	2.48	0.42
1:A:477:HIS:CD2	1:A:486:ALA:O	2.72	0.41
1:A:100:LYS:CE	1:A:101:ASN:HD21	2.34	0.41
1:A:334:GLN:HE21	1:A:334:GLN:HB2	1.59	0.41
1:A:35:ILE:HG22	7:A:1404:HOH:O	2.20	0.41
1:A:332:GLN:NE2	7:A:1638:HOH:O	2.39	0.41
1:A:98:ARG:HB2	1:A:102:GLN:HB3	2.03	0.41
1:A:69:ALA:HA	1:A:153:LEU:HG	2.02	0.40
1:A:65:ILE:HD13	1:A:90:LEU:HD21	2.03	0.40
1:A:73:ILE:HD13	1:A:104:GLY:HA2	2.03	0.40
1:A:90:LEU:HA	1:A:90:LEU:HD23	1.95	0.40
1:A:370:HIS:HB2	1:A:430:PRO:HG3	2.03	0.40

All (1) 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)
7:A:1191:HOH:O	7:A:1749:HOH:O[7_555]	2.08	0.12

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	540/584 (92%)	526 (97%)	14 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	467/500 (93%)	461 (99%)	6 (1%)	73	60

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	45	ASN
1	A	114	ASN
1	A	334	GLN
1	A	479	THR
1	A	489	GLN
1	A	503	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (21) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	45	ASN
1	A	97	HIS

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Mol	Chain	Res	Type
1	A	101	ASN
1	A	172	GLN
1	A	177	ASN
1	A	202	ASN
1	A	206	GLN
1	A	233	HIS
1	A	238	HIS
1	A	240	HIS
1	A	306	GLN
1	A	332	GLN
1	A	334	GLN
1	A	345	GLN
1	A	359	GLN
1	A	370	HIS
1	A	377	GLN
1	A	467	GLN
1	A	477	HIS
1	A	489	GLN
1	A	524	HIS

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 ⓘ

Of 7 ligands modelled in this entry, 3 are monoatomic - leaving 4 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	$\# Z > 2$
2	SRM	A	601	1,6	34,70,70	1.30	6 (17%)	34,112,112	2.11	6 (17%)
3	SF4	A	602	1	0,12,12	0.00	-	0,24,24	0.00	-
6	NO2	A	606[A]	-	1,2,2	4.17	1 (100%)	0,1,1	0.00	-
6	NO2	A	606[B]	-	1,2,2	4.17	1 (100%)	0,1,1	0.00	-

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	SRM	A	601	1,6	-	0/22/126/126	0/0/8/8
3	SF4	A	602	1	-	0/0/48/48	0/6/5/5
6	NO2	A	606[A]	-	-	0/0/0/0	0/0/0/0
6	NO2	A	606[B]	-	-	0/0/0/0	0/0/0/0

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	601	SRM	C4B-NB	-2.44	1.34	1.39
2	A	601	SRM	CHA-C1A	2.07	1.39	1.36
2	A	601	SRM	FE-NA	2.17	2.04	1.95
2	A	601	SRM	FE-NB	2.22	2.04	1.95
2	A	601	SRM	C3D-C2D	2.64	1.45	1.39
2	A	601	SRM	C3C-C2C	3.02	1.46	1.37
6	A	606[A]	NO2	O1-N	4.17	1.41	1.21
6	A	606[B]	NO2	O1-N	4.17	1.41	1.21

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	601	SRM	CAB-C3B-C2B	-7.43	115.12	123.52
2	A	601	SRM	CAA-C3A-C2A	-5.47	117.34	123.52
2	A	601	SRM	CED-CDD-C3D	-2.23	111.80	116.14
2	A	601	SRM	CBC-CAC-C3C	-2.14	108.39	112.47
2	A	601	SRM	C4A-NA-C1A	3.70	108.86	106.37
2	A	601	SRM	C4B-NB-C1B	4.24	109.23	106.37

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
6	A	606[A]	NO2	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 [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	538/584 (92%)	-0.22	13 (2%) 59 64	10, 16, 28, 41	0

All (13) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	18	VAL	10.2
1	A	334	GLN	3.8
1	A	341	GLU	3.7
1	A	503	LYS	3.6
1	A	31	ASP	3.0
1	A	38	GLU	2.8
1	A	19	ALA	2.8
1	A	78	GLN	2.6
1	A	340	PRO	2.5
1	A	504	ASN	2.4
1	A	35	ILE	2.1
1	A	74	GLU	2.1
1	A	79	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 carbohydrates in this entry.

6.4 Ligands

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
2	SRM	A	601	63/63	0.99	0.06	-0.75	9,11,17,26	0
5	CL	A	556	1/1	0.99	0.04	-1.15	22,22,22,22	0
4	K	A	603	1/1	0.99	0.06	-1.35	18,18,18,18	0
3	SF4	A	602	8/8	1.00	0.04	-1.40	11,11,12,13	0
6	NO2	A	606[B]	3/3	0.95	0.16	-	12,12,14,18	1
5	CL	A	604	1/1	0.99	0.03	-	23,23,23,23	0
6	NO2	A	606[A]	3/3	0.95	0.16	-	12,12,14,18	1

6.5 Other polymers

There are no such residues in this entry.