



# Full wwPDB X-ray Structure Validation Report ⓘ

Dec 19, 2023 – 10:04 PM EST

PDB ID : 3VKS  
Title : Assimilatory nitrite reductase (Nii3) - NO complex from tobacco leaf  
Authors : Nakano, S.; Takahashi, M.; Sakamoto, A.; Morikawa, H.; Katayanagi, K.  
Deposited on : 2011-11-20  
Resolution : 1.40 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](mailto: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>.

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

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.36  
buster-report : 1.1.7 (2018)  
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

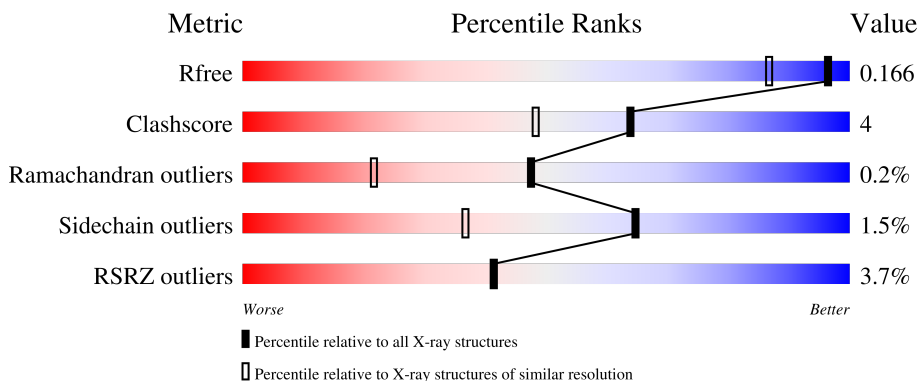
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.40 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	1714 (1.40-1.40)
Clashscore	141614	1812 (1.40-1.40)
Ramachandran outliers	138981	1763 (1.40-1.40)
Sidechain outliers	138945	1762 (1.40-1.40)
RSRZ outliers	127900	1674 (1.40-1.40)

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  $\geq 3$ , 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	591	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	SRM	A	601	X	-	-	-

## 2 Entry composition i

There are 7 unique types of molecules in this entry. The entry contains 5111 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.

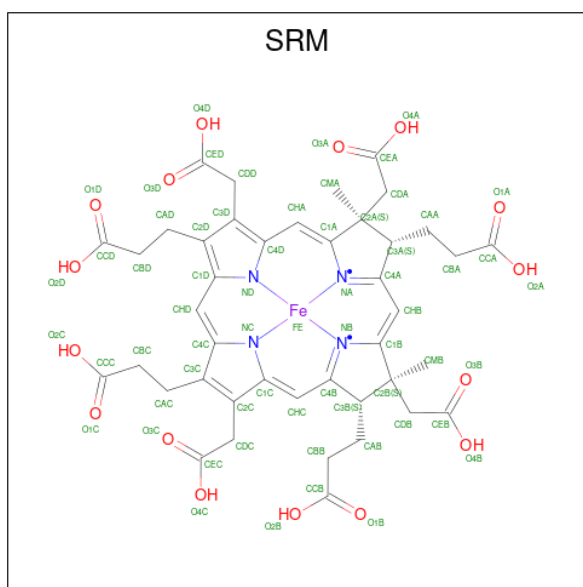
- Molecule 1 is a protein called Nitrite reductase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	538	4253	2685	754	790	24	0	4	0

There are 23 discrepancies between the modelled and reference sequences:

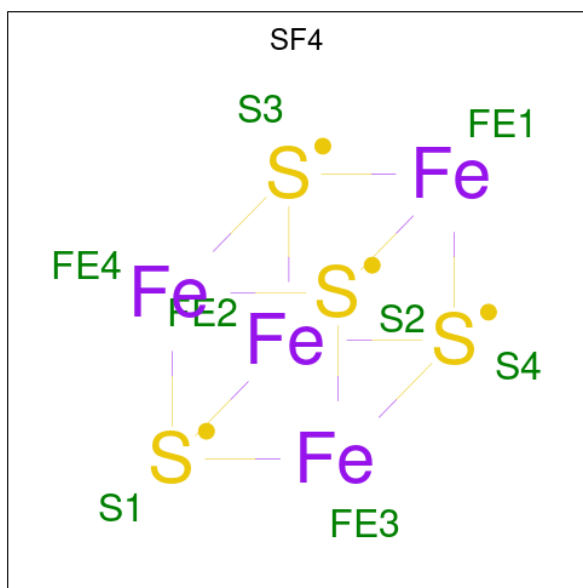
Chain	Residue	Modelled	Actual	Comment	Reference
A	-28	MET	-	expression tag	UNP Q76KB0
A	-27	GLY	-	expression tag	UNP Q76KB0
A	-26	HIS	-	expression tag	UNP Q76KB0
A	-25	HIS	-	expression tag	UNP Q76KB0
A	-24	HIS	-	expression tag	UNP Q76KB0
A	-23	HIS	-	expression tag	UNP Q76KB0
A	-22	HIS	-	expression tag	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	290	ARG	LYS	conflict	UNP Q76KB0

- Molecule 2 is SIROHEME (three-letter code: SRM) (formula:  $C_{42}H_{44}FeN_4O_{16}$ ).



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

- Molecule 3 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe<sub>4</sub>S<sub>4</sub>).



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

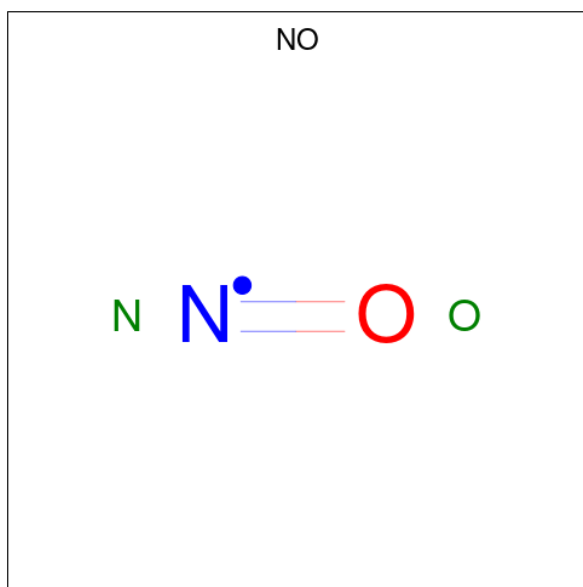
- Molecule 4 is POTASSIUM ION (three-letter code: K) (formula: K).

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 NITRIC OXIDE (three-letter code: NO) (formula: NO).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	1	Total N O 2 1 1	0	0

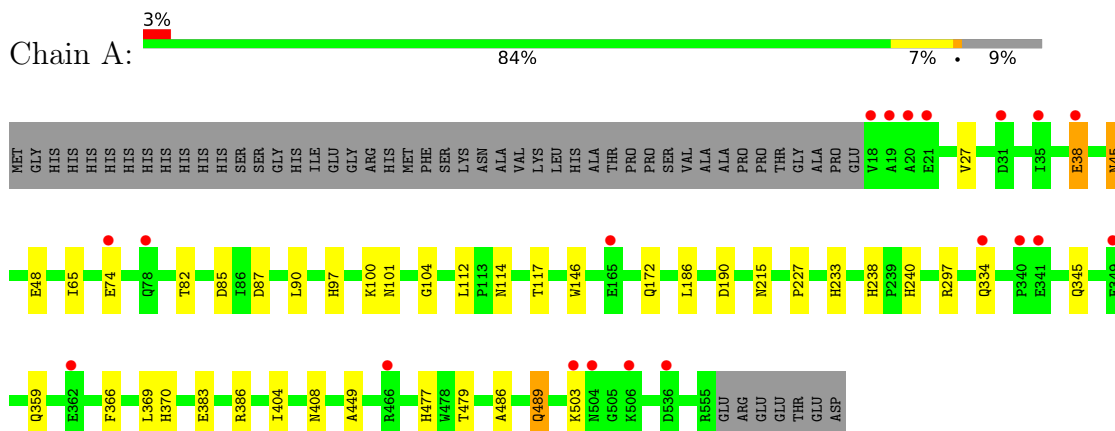
- Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	782	Total O 782 782	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: Nitrite reductase



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 4 21 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	132.76Å 132.76Å 77.54Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	23.49 – 1.40 22.46 – 1.40	Depositor EDS
% Data completeness (in resolution range)	100.0 (23.49-1.40) 99.4 (22.46-1.40)	Depositor EDS
$R_{merge}$	0.06	Depositor
$R_{sym}$	0.06	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.72 (at 1.40Å)	Xtrriage
Refinement program	REFMAC	Depositor
R, $R_{free}$	0.161 , 0.168 0.160 , 0.166	Depositor DCC
$R_{free}$ test set	6771 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	14.1	Xtrriage
Anisotropy	0.006	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.37 , 48.0	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	5111	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	18.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.09% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: SRM, CL, K, SF4, NO

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	0.36	0/4358	0.55	0/5897

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 [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	4253	0	4283	36	0
2	A	63	0	34	0	0
3	A	8	0	0	1	0
4	A	1	0	0	0	0
5	A	2	0	0	0	0
6	A	2	0	0	0	0
7	A	782	0	0	8	1
All	All	5111	0	4317	36	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 4.

All (36) 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	1.20	0.84
1:A:233:HIS:HD2	1:A:345:GLN:H	1.24	0.80
1:A:359:GLN:HE22	1:A:408:ASN:H	1.30	0.80
1:A:38:GLU:H	1:A:38:GLU:CD	1.88	0.77
1:A:233:HIS:CD2	1:A:345:GLN:H	2.06	0.73
1:A:359:GLN:NE2	1:A:408:ASN:H	1.89	0.71
1:A:489:GLN:HE21	1:A:489:GLN:H	1.41	0.68
1:A:112:LEU:HD11	1:A:117[A]:THR:HG22	1.82	0.61
1:A:112:LEU:HD21	1:A:117[A]:THR:HG23	1.82	0.61
1:A:477:HIS:HD2	1:A:486:ALA:O	1.85	0.59
1:A:172:GLN:HE22	1:A:215:ASN:H	1.51	0.58
1:A:238:HIS:HE1	7:A:1006:HOH:O	1.87	0.58
1:A:489:GLN:H	1:A:489:GLN:NE2	2.01	0.57
1:A:112:LEU:HD21	1:A:117[A]:THR:CG2	2.35	0.56
1:A:477:HIS:HE1	7:A:1007:HOH:O	1.90	0.54
1:A:87:ASP:OD2	1:A:97:HIS:HD2	1.92	0.53
1:A:359:GLN:HE21	1:A:366:PHE:HB3	1.72	0.53
1:A:370:HIS:HD2	7:A:1019:HOH:O	1.91	0.52
1:A:97:HIS:CE1	1:A:104:GLY:H	2.12	0.51
1:A:186:LEU:HB3	1:A:190:ASP:HB2	1.93	0.50
1:A:238:HIS:HD2	7:A:1034:HOH:O	1.94	0.50
1:A:240:HIS:HE1	7:A:1025:HOH:O	1.95	0.49
1:A:359:GLN:HE22	1:A:408:ASN:N	2.06	0.49
1:A:45:ASN:ND2	1:A:48:GLU:H	2.11	0.49
1:A:370:HIS:HE1	7:A:1042:HOH:O	1.97	0.47
1:A:100:LYS:HE2	1:A:101:ASN:OD1	2.14	0.46
1:A:65:ILE:HD13	1:A:90:LEU:HD21	1.97	0.45
1:A:74:GLU:HG2	7:A:1330:HOH:O	2.17	0.45
1:A:383:GLU:OE1	1:A:386:ARG:NH2	2.34	0.44
1:A:477:HIS:CD2	1:A:486:ALA:O	2.69	0.43
1:A:27:VAL:HG21	1:A:297:ARG:HG2	2.00	0.43
1:A:449:ALA:HB2	3:A:602:SF4:S4	2.59	0.43
1:A:117[A]:THR:HG21	1:A:146:TRP:HE1	1.84	0.42
1:A:369:LEU:HD12	1:A:404[A]:ILE:HD11	2.02	0.41
1:A:82:THR:O	1:A:85:ASP:HB2	2.20	0.41
1:A:345:GLN:HG2	7:A:1131:HOH:O	2.21	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:1906:HOH:O[7_555]	2.11	0.09

## 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	540/591 (91%)	527 (98%)	12 (2%)	1 (0%)	47 21

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	227	PRO

### 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	467/507 (92%)	460 (98%)	7 (2%)	65 37

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

Mol	Chain	Res	Type
1	A	38	GLU
1	A	45	ASN
1	A	114	ASN
1	A	334	GLN
1	A	479	THR
1	A	489	GLN
1	A	503	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (16) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	45	ASN
1	A	97	HIS
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	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 [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 [i](#)

Of 6 ligands modelled in this entry, 3 are monoatomic - leaving 3 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
3	SF4	A	602	1	0,12,12	-	-	-		
2	SRM	A	601	6,1	68,70,70	1.25	7 (10%)	81,112,112	1.56	14 (17%)
6	NO	A	606	2	0,1,1	-	-	-		

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
3	SF4	A	602	1	-	-	0/6/5/5
2	SRM	A	601	6,1	1/1/19/23	9/38/126/126	-

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	601	SRM	C3C-C2C	4.26	1.45	1.36
2	A	601	SRM	C3D-C2D	2.95	1.46	1.39
2	A	601	SRM	FE-NC	2.74	2.06	1.95
2	A	601	SRM	C1C-NC	-2.51	1.34	1.39
2	A	601	SRM	CHA-C1A	2.07	1.39	1.35
2	A	601	SRM	C4C-NC	-2.02	1.35	1.39
2	A	601	SRM	CHD-C4C	2.01	1.38	1.35

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	601	SRM	CAA-C3A-C4A	4.37	118.90	111.19
2	A	601	SRM	C4C-NC-C1C	4.07	109.33	105.35
2	A	601	SRM	C1A-NA-C4A	3.75	109.47	105.23
2	A	601	SRM	C3D-CDD-CED	-3.57	109.95	114.21
2	A	601	SRM	C2A-C1A-CHA	3.26	126.52	123.54
2	A	601	SRM	C2B-C1B-CHB	3.21	126.47	123.54
2	A	601	SRM	CAB-C3B-C4B	3.08	116.63	111.19
2	A	601	SRM	C4B-NB-C1B	3.07	108.70	105.23
2	A	601	SRM	O4A-CEA-CDA	2.30	121.74	114.35
2	A	601	SRM	O2D-CCD-CBD	2.17	121.01	114.03
2	A	601	SRM	O4D-CED-O3D	-2.14	117.98	123.30
2	A	601	SRM	C4D-CHA-C1A	-2.11	125.93	130.12
2	A	601	SRM	CMB-C2B-C3B	2.05	115.87	112.08
2	A	601	SRM	O2C-CCC-O1C	-2.02	118.26	123.30

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	601	SRM	NC

All (9) torsion outliers are listed below:

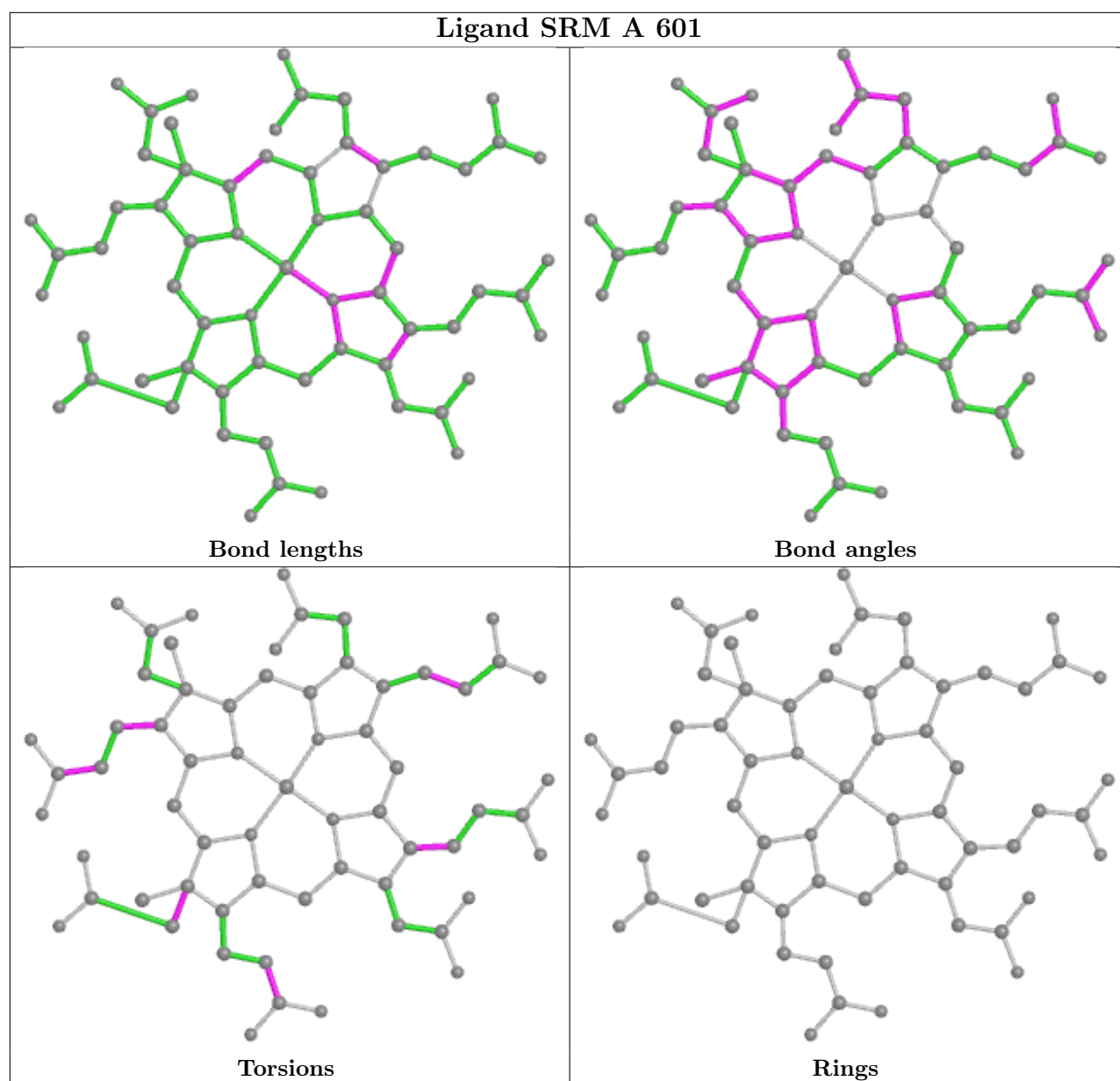
Mol	Chain	Res	Type	Atoms
2	A	601	SRM	C2A-C3A-CAA-CBA
2	A	601	SRM	C4A-C3A-CAA-CBA
2	A	601	SRM	C4C-C3C-CAC-CBC
2	A	601	SRM	C3B-C2B-CDB-CEB
2	A	601	SRM	CAB-CBB-CCB-O1B
2	A	601	SRM	CAB-CBB-CCB-O2B
2	A	601	SRM	CAA-CBA-CCA-O2A
2	A	601	SRM	CAA-CBA-CCA-O1A
2	A	601	SRM	C2D-CAD-CBD-CCD

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	602	SF4	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



## 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	538/591 (91%)	-0.17	20 (3%) 41 41	9, 14, 25, 33	0

All (20) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	18	VAL	6.8
1	A	503	LYS	5.0
1	A	19	ALA	5.0
1	A	38	GLU	3.7
1	A	334	GLN	3.7
1	A	504	ASN	3.5
1	A	31	ASP	3.5
1	A	21	GLU	3.3
1	A	341	GLU	3.1
1	A	466	ARG	3.0
1	A	20	ALA	2.6
1	A	506	LYS	2.5
1	A	74	GLU	2.5
1	A	78	GLN	2.5
1	A	536	ASP	2.4
1	A	165	GLU	2.4
1	A	35	ILE	2.3
1	A	349	GLU	2.2
1	A	340	PRO	2.1
1	A	362	GLU	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 monosaccharides in this entry.

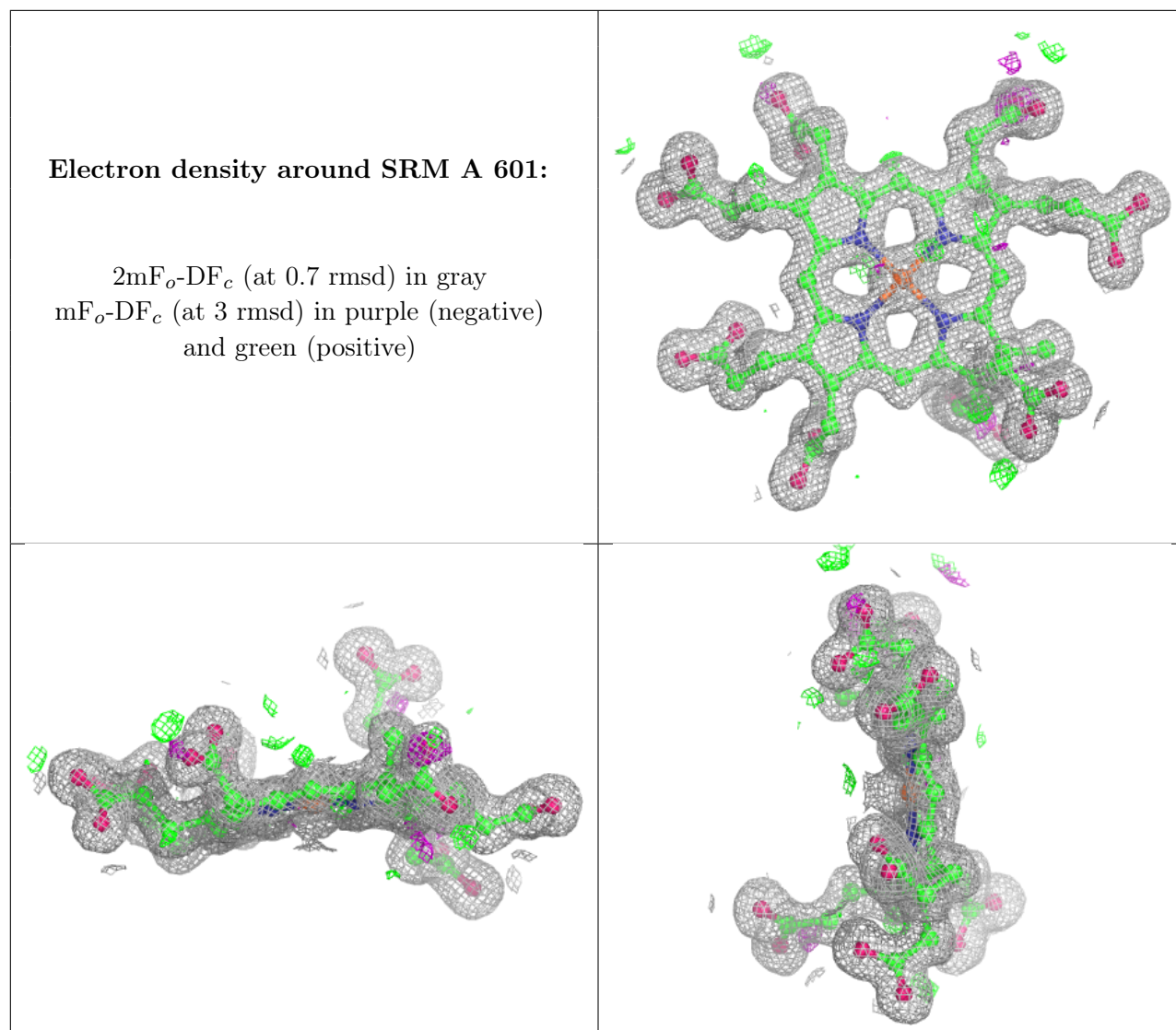
### 6.4 Ligands [i](#)

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
6	NO	A	606	2/2	0.96	0.16	16,16,16,18	0
2	SRM	A	601	63/63	0.98	0.06	8,10,14,19	0
5	CL	A	605	1/1	0.99	0.04	19,19,19,19	0
5	CL	A	604	1/1	0.99	0.08	20,20,20,20	0
4	K	A	603	1/1	1.00	0.04	10,10,10,10	0
3	SF4	A	602	8/8	1.00	0.04	9,9,10,10	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.





## 6.5 Other polymers [i](#)

There are no such residues in this entry.