



# Full wwPDB X-ray Structure Validation Report ⓘ

Jan 7, 2024 – 03:15 am GMT

PDB ID : 5NR2  
Title : Crystal structure of the ferric enterobactin receptor (PfeA) from *Pseudomonas aeruginosa* in complex with azotochelin  
Authors : Moynie, L.; Naismith, J.H.  
Deposited on : 2017-04-21  
Resolution : 2.78 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 : 1.8.4, 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

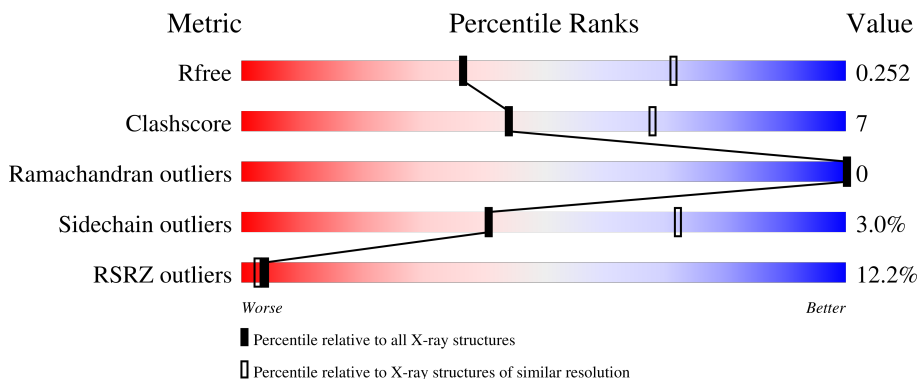
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.78 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	4107 (2.80-2.76)
Clashscore	141614	4575 (2.80-2.76)
Ramachandran outliers	138981	4487 (2.80-2.76)
Sidechain outliers	138945	4489 (2.80-2.76)
RSRZ outliers	127900	4027 (2.80-2.76)

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	724	

## 2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 5398 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 Ferric enterobactin receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	697	5363	3318	962	1072	11	0	0	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP Q05098
A	-1	ALA	-	expression tag	UNP Q05098
A	0	MET	-	expression tag	UNP Q05098

- Molecule 2 is FE (III) ION (three-letter code: FE) (formula: Fe).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Fe	0	0
			1	1		

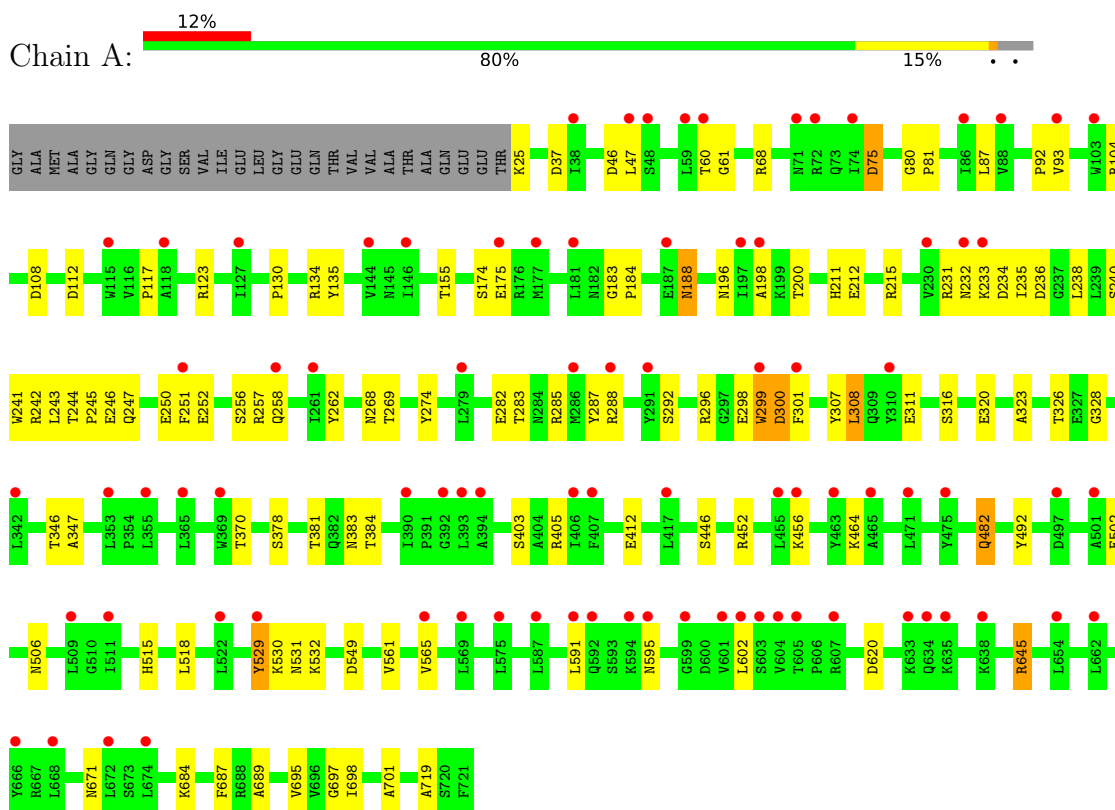
- Molecule 3 is Azotochelin (three-letter code: 95B) (formula: C<sub>20</sub>H<sub>22</sub>N<sub>2</sub>O<sub>8</sub>).



### 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: Ferric enterobactin receptor



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	86.64Å 158.08Å 78.99Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	86.64 – 2.78 79.04 – 2.78	Depositor EDS
% Data completeness (in resolution range)	99.9 (86.64-2.78) 99.9 (79.04-2.78)	Depositor EDS
$R_{merge}$	0.05	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.90 (at 2.77Å)	Xtrriage
Refinement program	REFMAC 5.8.0158	Depositor
R, $R_{free}$	0.224 , 0.260 0.224 , 0.252	Depositor DCC
$R_{free}$ test set	1365 reflections (4.88%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	91.7	Xtrriage
Anisotropy	0.231	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.30 , 61.6	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	0.88	EDS
Total number of atoms	5398	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	110.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.27% 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: 95B, FE, EDO

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	0.55	0/5474	0.71	0/7424

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	5363	0	5146	68	0
2	A	1	0	0	0	0
3	A	30	0	0	3	0
4	A	4	0	4	0	0
All	All	5398	0	5150	70	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 7.

All (70) 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:323:ALA:O	1:A:326:THR:OG1	2.01	0.79
1:A:134:ARG:NE	1:A:412:GLU:OE2	2.18	0.77
1:A:645:ARG:HH11	1:A:645:ARG:HG3	1.49	0.77
1:A:244:THR:HB	1:A:245:PRO:HD2	1.75	0.68
1:A:346:THR:HG23	1:A:370:THR:HG22	1.74	0.67
1:A:130:PRO:HG3	1:A:506:ASN:O	1.94	0.67
1:A:257:ARG:NH2	1:A:282:GLU:OE2	2.29	0.65
1:A:155:THR:HG22	1:A:183:GLY:HA3	1.77	0.65
1:A:246:GLU:HB2	1:A:298:GLU:O	1.97	0.63
1:A:257:ARG:HD2	1:A:287:TYR:CE1	2.35	0.62
1:A:188:ASN:N	1:A:188:ASN:OD1	2.33	0.61
1:A:645:ARG:HG3	1:A:645:ARG:NH1	2.15	0.59
1:A:87:LEU:HD23	1:A:92:PRO:HA	1.84	0.59
1:A:198:ALA:HB3	1:A:232:ASN:HB2	1.86	0.57
1:A:464:LYS:HB3	1:A:502:GLU:HB2	1.86	0.57
1:A:247:GLN:HE21	1:A:299:TRP:HH2	1.52	0.56
1:A:234:ASP:O	1:A:235:ILE:HG13	2.04	0.56
1:A:60:THR:HG23	1:A:61:GLY:O	2.06	0.55
1:A:211:HIS:CE1	1:A:687:PHE:CD2	2.95	0.55
1:A:285:ARG:HG3	1:A:316:SER:HB2	1.88	0.55
1:A:242:ARG:NH1	1:A:245:PRO:O	2.40	0.53
1:A:134:ARG:NH1	1:A:135:TYR:CE1	2.77	0.53
1:A:238:LEU:HD21	1:A:240:SER:HB2	1.89	0.53
1:A:93:VAL:HG11	1:A:112:ASP:HB3	1.92	0.52
1:A:299:TRP:CD1	1:A:299:TRP:N	2.78	0.52
1:A:250:GLU:OE2	1:A:296:ARG:NH1	2.29	0.51
1:A:689:ALA:HB3	1:A:701:ALA:HB1	1.93	0.50
1:A:244:THR:HB	1:A:245:PRO:CD	2.42	0.50
1:A:60:THR:HG22	1:A:75:ASP:HB2	1.94	0.49
1:A:452:ARG:HD3	1:A:515:HIS:CG	2.46	0.49
1:A:233:LYS:O	1:A:256:SER:HA	2.13	0.48
1:A:532:LYS:CE	1:A:602:LEU:HD22	2.44	0.48
1:A:268:ASN:O	1:A:269:THR:OG1	2.24	0.48
1:A:236:ASP:OD2	1:A:252:GLU:OE1	2.32	0.47
1:A:212:GLU:N	1:A:212:GLU:OE1	2.44	0.47
1:A:211:HIS:CE1	1:A:687:PHE:CE2	3.03	0.47
1:A:307:TYR:O	1:A:347:ALA:HA	2.14	0.46
1:A:46:ASP:OD1	1:A:47:LEU:N	2.48	0.46
1:A:378:SER:O	1:A:381:THR:HG23	2.15	0.46
1:A:262:TYR:HB2	1:A:283:THR:HG23	1.97	0.46
1:A:68:ARG:NE	1:A:108:ASP:HB2	2.32	0.45
1:A:530:LYS:O	1:A:531:ASN:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:482:GLN:HB3	3:A:802:95B:CAX	2.47	0.44
1:A:529:TYR:CZ	1:A:532:LYS:HG3	2.53	0.44
1:A:695:VAL:HG22	1:A:698:ILE:HB	1.99	0.44
1:A:25:LYS:HE3	1:A:37:ASP:OD2	2.17	0.44
3:A:802:95B:NAS	3:A:802:95B:OAG	2.51	0.43
3:A:802:95B:OAH	3:A:802:95B:N	2.51	0.43
1:A:215:ARG:HA	1:A:697:GLY:O	2.18	0.43
1:A:292:SER:HA	1:A:308:LEU:O	2.19	0.43
1:A:565:VAL:HG13	1:A:565:VAL:O	2.18	0.43
1:A:174:SER:OG	1:A:200:THR:HG23	2.19	0.43
1:A:446:SER:HB2	1:A:456:LYS:HE3	2.00	0.43
1:A:80:GLY:HA2	1:A:81:PRO:HD3	1.80	0.43
1:A:241:TRP:CD2	1:A:243:LEU:HD11	2.54	0.42
1:A:384:THR:HA	1:A:492:TYR:OH	2.19	0.42
1:A:234:ASP:OD1	1:A:256:SER:HB3	2.20	0.42
1:A:403:SER:OG	1:A:405:ARG:NH1	2.53	0.42
1:A:300:ASP:N	1:A:300:ASP:OD1	2.53	0.41
1:A:288:ARG:NH2	1:A:311:GLU:OE1	2.47	0.41
1:A:117:PRO:HG3	1:A:196:ASN:HB2	2.02	0.41
1:A:155:THR:HG23	1:A:184:PRO:HD2	2.03	0.41
1:A:231:ARG:O	1:A:258:GLN:HA	2.20	0.41
1:A:561:VAL:HG11	1:A:595:ASN:OD1	2.21	0.41
1:A:383:ASN:OD1	1:A:383:ASN:C	2.59	0.41
1:A:671:ASN:O	1:A:719:ALA:HA	2.21	0.41
1:A:296:ARG:NH1	1:A:296:ARG:HB2	2.36	0.40
1:A:320:GLU:OE1	1:A:328:GLY:HA2	2.21	0.40
1:A:104:ARG:HA	1:A:104:ARG:HD3	1.97	0.40
1:A:591:LEU:HD23	1:A:591:LEU:HA	1.90	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	695/724 (96%)	674 (97%)	21 (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	566/584 (97%)	549 (97%)	17 (3%)	41 72

All (17) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	75	ASP
1	A	123	ARG
1	A	175	GLU
1	A	188	ASN
1	A	251	PHE
1	A	274	TYR
1	A	299	TRP
1	A	300	ASP
1	A	301	PHE
1	A	308	LEU
1	A	482	GLN
1	A	518	LEU
1	A	529	TYR
1	A	549	ASP
1	A	620	ASP
1	A	645	ARG
1	A	684	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

### 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 3 ligands modelled in this entry, 1 is 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
3	95B	A	802	2	31,31,31	1.26	2 (6%)	42,42,42	1.06	2 (4%)
4	EDO	A	803	2	3,3,3	0.55	0	2,2,2	0.28	0

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	95B	A	802	2	-	0/24/24/24	0/2/2/2
4	EDO	A	803	2	-	1/1/1/1	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	802	95B	CBC-CAW	-4.66	1.40	1.50
3	A	802	95B	CBB-CAV	-4.44	1.41	1.50

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	802	95B	CBB-CAZ-CAX	3.44	122.17	119.99
3	A	802	95B	CBC-CBA-CAY	2.43	121.53	119.99

There are no chirality outliers.

All (1) torsion outliers are listed below:

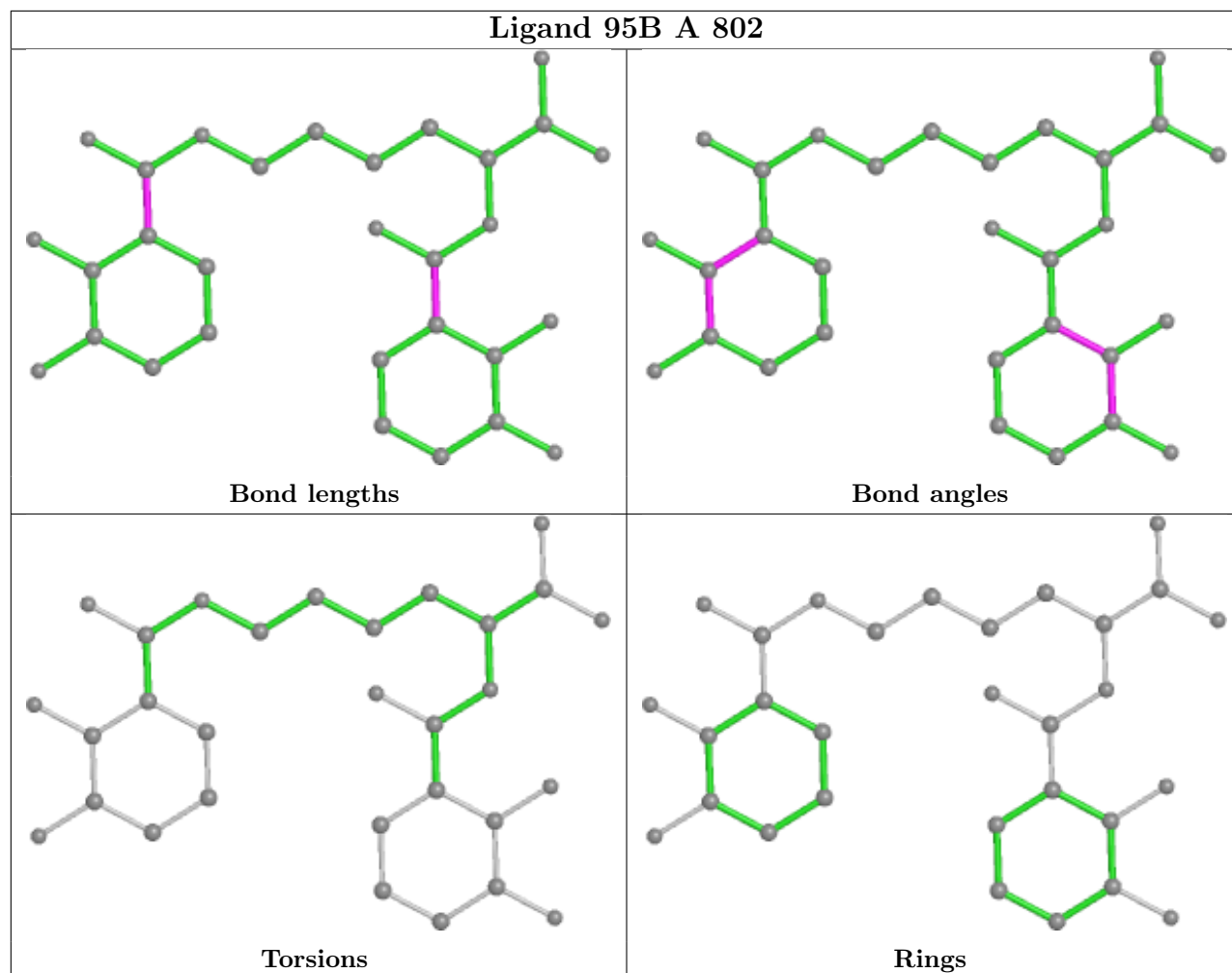
Mol	Chain	Res	Type	Atoms
4	A	803	EDO	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	802	95B	3	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

### 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, 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	697/724 (96%)	0.69	85 (12%) <b>4</b> <b>3</b>	67, 108, 151, 186	0

All (85) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	301	PHE	5.4
1	A	635	LYS	5.0
1	A	251	PHE	4.1
1	A	355	LEU	4.0
1	A	299	TRP	4.0
1	A	392	GLY	3.9
1	A	393	LEU	3.9
1	A	602	LEU	3.9
1	A	668	LEU	3.9
1	A	353	LEU	3.8
1	A	604	VAL	3.7
1	A	93	VAL	3.6
1	A	471	LEU	3.5
1	A	187	GLU	3.5
1	A	633	LYS	3.5
1	A	634	GLN	3.4
1	A	674	LEU	3.4
1	A	601	VAL	3.4
1	A	672	LEU	3.4
1	A	233	LYS	3.4
1	A	258	GLN	3.3
1	A	232	ASN	3.2
1	A	286	MET	3.2
1	A	144	VAL	3.1
1	A	605	THR	3.1
1	A	417	LEU	3.1
1	A	591	LEU	3.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	A	197	ILE	3.1
1	A	599	GLY	3.1
1	A	603	SER	3.0
1	A	146	ILE	2.9
1	A	565	VAL	2.9
1	A	60	THR	2.9
1	A	72	ARG	2.9
1	A	522	LEU	2.8
1	A	456	LYS	2.8
1	A	594	LYS	2.8
1	A	103	TRP	2.7
1	A	198	ALA	2.7
1	A	501	ALA	2.7
1	A	666	TYR	2.7
1	A	607	ARG	2.7
1	A	230	VAL	2.7
1	A	369	TRP	2.6
1	A	310	TYR	2.6
1	A	261	ILE	2.5
1	A	463	TYR	2.4
1	A	86	ILE	2.4
1	A	115	TRP	2.4
1	A	177	MET	2.4
1	A	455	LEU	2.4
1	A	569	LEU	2.4
1	A	654	LEU	2.4
1	A	342	LEU	2.3
1	A	288	ARG	2.3
1	A	511	ILE	2.3
1	A	497	ASP	2.3
1	A	365	LEU	2.3
1	A	575	LEU	2.3
1	A	390	ILE	2.3
1	A	181	LEU	2.3
1	A	59	LEU	2.2
1	A	529	TYR	2.2
1	A	38	ILE	2.2
1	A	74	ILE	2.2
1	A	662	LEU	2.2
1	A	48	SER	2.2
1	A	509	LEU	2.2
1	A	118	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	475	TYR	2.2
1	A	88	VAL	2.2
1	A	279	LEU	2.1
1	A	394	ALA	2.1
1	A	638	LYS	2.1
1	A	127	ILE	2.1
1	A	71	ASN	2.1
1	A	407	PHE	2.1
1	A	47	LEU	2.1
1	A	595	ASN	2.1
1	A	406	ILE	2.1
1	A	592	GLN	2.0
1	A	291	TYR	2.0
1	A	465	ALA	2.0
1	A	587	LEU	2.0
1	A	175	GLU	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.

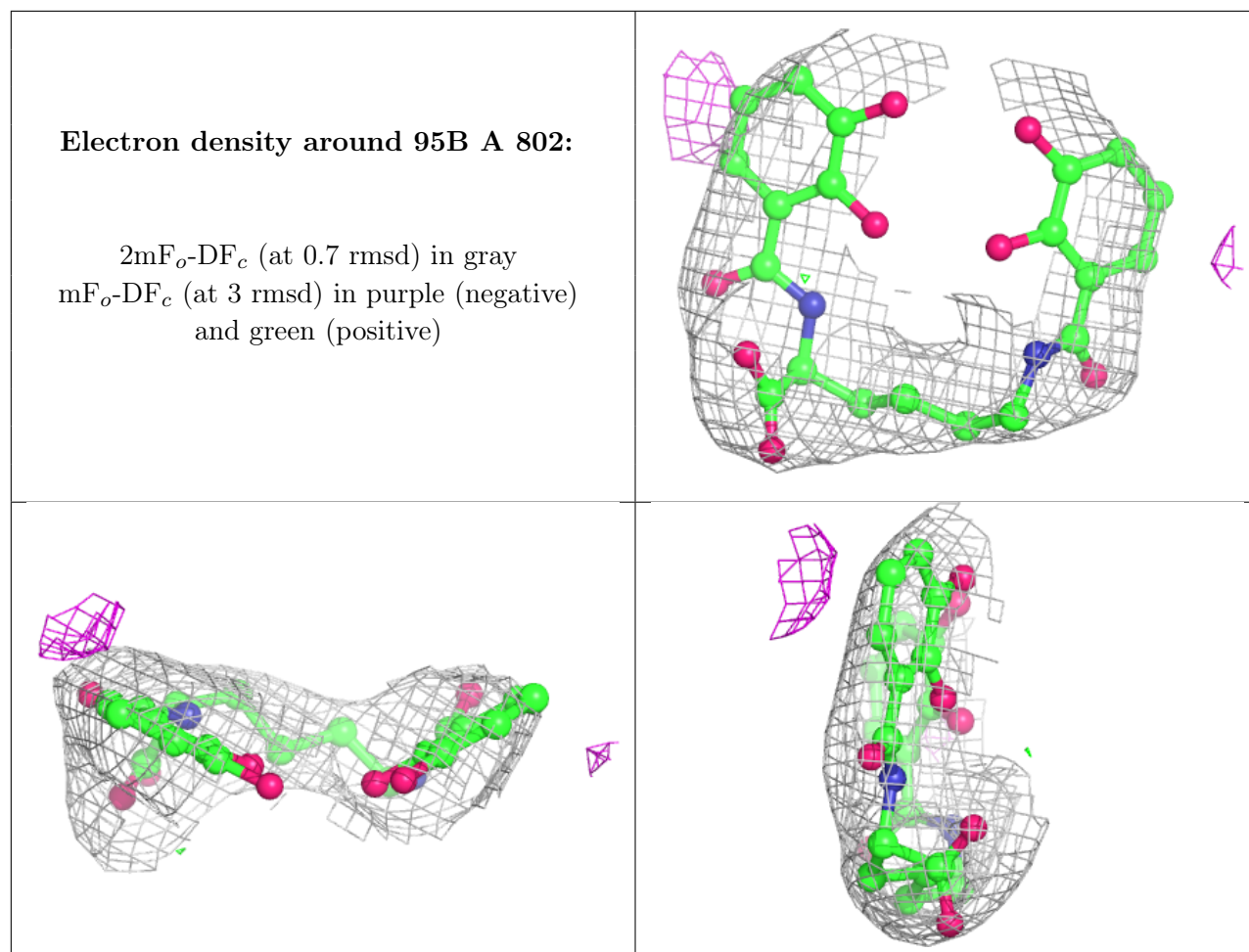
## 6.4 Ligands [i](#)

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, 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
3	95B	A	802	30/30	0.96	0.25	67,92,108,110	0
4	EDO	A	803	4/4	0.99	0.21	89,92,93,106	0
2	FE	A	801	1/1	1.00	0.26	84,84,84,84	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.