



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 06:00 AM UTC

PDB ID : 3O83 / pdb_00003o83
Title : Structure of BasE N-terminal domain from *Acinetobacter baumannii* bound to 2-(4-n-dodecyl-1,2,3-triazol-1-yl)-5'-O-[N-(2-hydroxybenzoyl)sulfamoyl]adenosine
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Deposited on : 2010-08-02
Resolution : 1.90 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
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
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

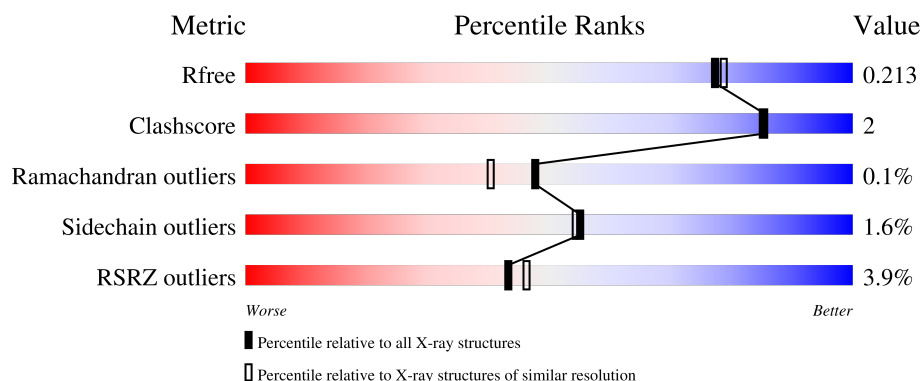
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

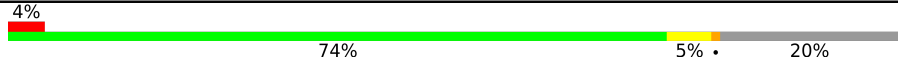
The reported resolution of this entry is 1.90 Å.

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	7789 (1.90-1.90)
Clashscore	190562	8410 (1.90-1.90)
Ramachandran outliers	187476	8333 (1.90-1.90)
Sidechain outliers	187428	8333 (1.90-1.90)
RSRZ outliers	180081	7790 (1.90-1.90)

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	544	
1	B	544	

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 7428 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.

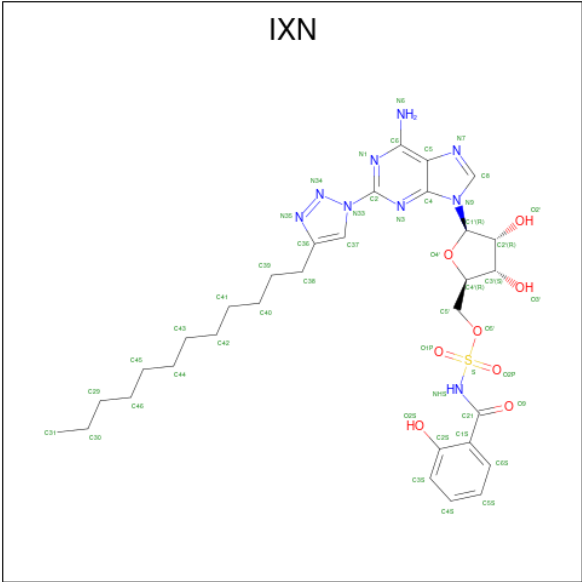
- Molecule 1 is a protein called Peptide arylation enzyme.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	433	Total	C	N	O	S	0	2	0
			3401	2166	582	638	15			
1	B	436	Total	C	N	O	S	0	2	0
			3405	2171	581	638	15			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	GLY	-	expression tag	UNP B2HVG8
A	0	HIS	-	expression tag	UNP B2HVG8
A	45	LEU	PRO	engineered mutation	UNP B2HVG8
A	68	THR	SER	SEE REMARK 999	UNP B2HVG8
A	149	ASP	GLU	SEE REMARK 999	UNP B2HVG8
A	180	PHE	LEU	SEE REMARK 999	UNP B2HVG8
A	226	GLY	ASP	SEE REMARK 999	UNP B2HVG8
A	329	LEU	ILE	SEE REMARK 999	UNP B2HVG8
A	378	ARG	LYS	SEE REMARK 999	UNP B2HVG8
B	-1	GLY	-	expression tag	UNP B2HVG8
B	0	HIS	-	expression tag	UNP B2HVG8
B	45	LEU	PRO	engineered mutation	UNP B2HVG8
B	68	THR	SER	SEE REMARK 999	UNP B2HVG8
B	149	ASP	GLU	SEE REMARK 999	UNP B2HVG8
B	180	PHE	LEU	SEE REMARK 999	UNP B2HVG8
B	226	GLY	ASP	SEE REMARK 999	UNP B2HVG8
B	329	LEU	ILE	SEE REMARK 999	UNP B2HVG8
B	378	ARG	LYS	SEE REMARK 999	UNP B2HVG8

- Molecule 2 is 2-(4-dodecyl-1H-1,2,3-triazol-1-yl)-5'-O-([(2-hydroxyphenyl)carbonyl]sulfamoyl}adenosine (CCD ID: IXN) (formula: C₃₁H₄₃N₉O₈S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	S	0	0
			46	28	9	8	1		
2	B	1	Total	C	N	O	S	0	0
			41	23	9	8	1		

- Molecule 3 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	3	Total	Ca	0	0
			3	3		
3	B	3	Total	Ca	0	0
			3	3		

- Molecule 4 is (4S)-2-METHYL-2,4-PENTANEDIOL (CCD ID: MPD) (formula: C₆H₁₄O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			8	6	2		

- Molecule 5 is (4R)-2-METHYLPENTANE-2,4-DIOL (CCD ID: MRD) (formula: $C_6H_{14}O_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	B	1	Total	C	O	0	0
			8	6	2		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	269	Total 269	O 269	0	0
6	B	244	Total 244	O 244	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	66.46Å 144.24Å 148.47Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	38.95 – 1.90 38.95 – 1.90	Depositor EDS
% Data completeness (in resolution range)	94.4 (38.95-1.90) 94.4 (38.95-1.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.32 (at 1.89Å)	Xtriage
Refinement program	REFMAC 5.5.0088	Depositor
R, R_{free}	0.194 , 0.217 (Not available) , 0.213	Depositor DCC
R_{free} test set	5308 reflections (4.70%)	wwPDB-VP
Wilson B-factor (Å ²)	24.5	Xtriage
Anisotropy	0.616	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 29.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.009 for -h,l,k	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	7428	wwPDB-VP
Average B, all atoms (Å ²)	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.46% 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: MRD, MPD, IXN, CA

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	0.59	0/3485	0.76	0/4740
1	B	0.61	0/3491	0.76	1/4753 (0.0%)
All	All	0.60	0/6976	0.76	1/9493 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	433	VAL	CB-CA-C	5.91	116.44	110.65

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	3401	0	3332	17	0
1	B	3405	0	3320	12	0
2	A	46	0	34	0	0
2	B	41	0	23	0	0
3	A	3	0	0	1	0
3	B	3	0	0	0	0
4	A	8	0	14	1	0
5	B	8	0	14	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	A	269	0	0	2	0
6	B	244	0	0	0	0
All	All	7428	0	6737	30	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 (30) 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:408:GLN:HE21	1:A:408:GLN:HA	1.54	0.72
1:A:235[B]:CYS:SG	1:A:260:VAL:HG13	2.32	0.69
3:A:544:CA:CA	6:A:665:HOH:O	1.71	0.67
1:B:235[B]:CYS:SG	1:B:260:VAL:HG13	2.35	0.67
1:B:195:GLN:HE21	1:B:196:LEU:H	1.46	0.64
1:A:424:ARG:HH11	1:A:424:ARG:HG2	1.66	0.61
1:A:305:GLN:NE2	6:A:768:HOH:O	2.35	0.60
1:A:213:ASP:HB2	1:A:394:TYR:HA	1.84	0.60
1:B:213:ASP:HB2	1:B:394:TYR:HA	1.83	0.59
1:A:75:LEU:HD11	1:A:156:ILE:HD12	1.90	0.54
1:B:289:ALA:HA	1:B:292:MET:HE2	1.91	0.53
1:A:195:GLN:HE21	1:A:196:LEU:H	1.57	0.52
1:A:115:TYR:OH	1:B:291:ILE:HG22	2.11	0.51
1:A:424:ARG:HH11	1:A:424:ARG:CG	2.25	0.48
1:A:133:ARG:HB2	1:A:161:ASN:O	2.15	0.47
1:A:64:THR:O	1:A:68:THR:HG23	2.15	0.45
1:B:265:ASN:HB2	1:B:266:PRO:CD	2.47	0.45
1:B:375:GLU:H	1:B:375:GLU:CD	2.23	0.45
1:A:52:ARG:NH1	1:A:90:GLU:OE2	2.43	0.44
1:A:15:ARG:HD2	1:A:19:TYR:OH	2.18	0.42
1:B:27:ASP:HA	1:B:212:ASN:OD1	2.19	0.42
1:B:423:GLN:HE21	1:B:431:ARG:HD2	1.84	0.42
1:A:77:LYS:NZ	1:A:184:SER:OG	2.47	0.41
1:A:235[B]:CYS:SG	1:A:244:MET:HE2	2.60	0.41
1:B:248:PRO:HD3	1:B:311:GLN:HE22	1.85	0.41
4:A:546:MPD:HM2	4:A:546:MPD:H4	1.90	0.41
1:A:150:VAL:HG12	1:A:150:VAL:O	2.21	0.41
1:B:163:GLN:O	1:B:164:ALA:C	2.64	0.40
1:B:195:GLN:NE2	1:B:196:LEU:H	2.16	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	431/544 (79%)	420 (97%)	11 (3%)	0	100	100
1	B	436/544 (80%)	427 (98%)	8 (2%)	1 (0%)	43	36
All	All	867/1088 (80%)	847 (98%)	19 (2%)	1 (0%)	48	40

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	164	ALA

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	371/472 (79%)	363 (98%)	8 (2%)	45	42
1	B	368/472 (78%)	364 (99%)	4 (1%)	65	67
All	All	739/944 (78%)	727 (98%)	12 (2%)	55	54

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	195	GLN
1	A	206	LEU
1	A	213	ASP
1	A	223	GLU
1	A	321	LEU

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Mol	Chain	Res	Type
1	A	396	PHE
1	A	408	GLN
1	A	424	ARG
1	B	195	GLN
1	B	213	ASP
1	B	396	PHE
1	B	433	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (17) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	17	GLN
1	A	18	HIS
1	A	21	ASN
1	A	161	ASN
1	A	195	GLN
1	A	230	ASN
1	A	270	ASN
1	A	303	GLN
1	A	311	GLN
1	A	408	GLN
1	A	423	GLN
1	B	18	HIS
1	B	195	GLN
1	B	230	ASN
1	B	270	ASN
1	B	276	GLN
1	B	423	GLN

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 oligosaccharides in this entry.

5.6 Ligand geometry

Of 10 ligands modelled in this entry, 6 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	IXN	A	800	-	50,50,53	1.45	9 (18%)	67,71,74	1.92	18 (26%)
2	IXN	B	800	-	45,45,53	1.56	9 (20%)	62,66,74	1.91	16 (25%)
5	MRD	B	546	-	7,7,7	0.31	0	9,10,10	0.35	0
4	MPD	A	546	-	7,7,7	0.31	0	9,10,10	0.56	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
2	IXN	A	800	-	-	4/31/48/51	0/5/5/5
2	IXN	B	800	-	-	1/26/43/51	0/5/5/5
5	MRD	B	546	-	-	2/5/5/5	-
4	MPD	A	546	-	-	1/5/5/5	-

All (18) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	800	IXN	N35-N34	4.89	1.40	1.32
2	A	800	IXN	N35-N34	4.64	1.39	1.32
2	B	800	IXN	C21-NHS	-4.34	1.33	1.39
2	A	800	IXN	C21-NHS	-4.08	1.34	1.39
2	B	800	IXN	C2-N33	-3.15	1.34	1.40
2	A	800	IXN	C2-N33	-2.93	1.35	1.40
2	B	800	IXN	O2P-S	2.92	1.45	1.42
2	B	800	IXN	O5'-S	-2.69	1.54	1.60
2	A	800	IXN	O5'-S	-2.67	1.54	1.60
2	B	800	IXN	C37-C36	2.63	1.40	1.36
2	A	800	IXN	C37-C36	2.51	1.40	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	800	IXN	C8-N7	2.45	1.36	1.31
2	A	800	IXN	O1P-S	2.41	1.44	1.42
2	B	800	IXN	C8-N7	2.24	1.36	1.31
2	A	800	IXN	O2P-S	2.22	1.44	1.42
2	B	800	IXN	C4-N9	-2.15	1.33	1.37
2	B	800	IXN	C5-N7	-2.07	1.35	1.39
2	A	800	IXN	C4-N3	2.05	1.36	1.34

All (34) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	800	IXN	O2P-S-O1P	-7.16	110.13	120.85
2	B	800	IXN	C5-C4-N3	-5.90	120.96	127.18
2	B	800	IXN	O2P-S-O1P	-5.79	112.18	120.85
2	A	800	IXN	C5-C4-N3	-5.77	121.10	127.18
2	B	800	IXN	N33-N34-N35	-4.42	102.14	107.02
2	A	800	IXN	N33-N34-N35	-4.15	102.43	107.02
2	B	800	IXN	C37-N33-N34	3.93	114.99	110.31
2	A	800	IXN	C37-N33-N34	3.81	114.85	110.31
2	A	800	IXN	N9-C8-N7	-3.57	108.87	113.94
2	B	800	IXN	N9-C8-N7	-3.54	108.91	113.94
2	A	800	IXN	N3-C2-N1	-3.54	119.98	126.27
2	A	800	IXN	N3-C2-N33	3.36	120.79	115.90
2	B	800	IXN	N3-C2-N1	-3.25	120.49	126.27
2	B	800	IXN	N3-C4-N9	3.20	131.05	126.99
2	A	800	IXN	C4-C5-N7	-3.08	107.06	110.58
2	A	800	IXN	N3-C4-N9	2.98	130.78	126.99
2	B	800	IXN	C4-C5-N7	-2.94	107.22	110.58
2	B	800	IXN	N3-C2-N33	2.94	120.17	115.90
2	A	800	IXN	C2-N1-C6	2.79	122.58	117.15
2	A	800	IXN	C5-N7-C8	2.64	107.60	103.45
2	B	800	IXN	C5-N7-C8	2.56	107.47	103.45
2	B	800	IXN	C4-N9-C8	2.54	108.41	105.74
2	A	800	IXN	C4-N9-C8	2.48	108.35	105.74
2	A	800	IXN	C2-N3-C4	2.40	119.75	114.97
2	B	800	IXN	N1-C2-N33	2.37	119.34	115.90
2	B	800	IXN	N6-C6-N1	2.37	120.22	117.03
2	B	800	IXN	C2-N1-C6	2.34	121.72	117.15
2	A	800	IXN	N1-C2-N33	2.29	119.23	115.90
2	B	800	IXN	C2-N3-C4	2.28	119.53	114.97
2	A	800	IXN	O9-C21-NHS	2.25	123.93	121.16
2	A	800	IXN	N6-C6-N1	2.16	119.95	117.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	800	IXN	C5-C4-N9	2.12	108.12	105.81
2	B	800	IXN	C36-C37-N33	-2.05	103.45	105.27
2	A	800	IXN	O5'-S-NHS	2.01	110.88	105.69

There are no chirality outliers.

All (8) torsion outliers are listed below:

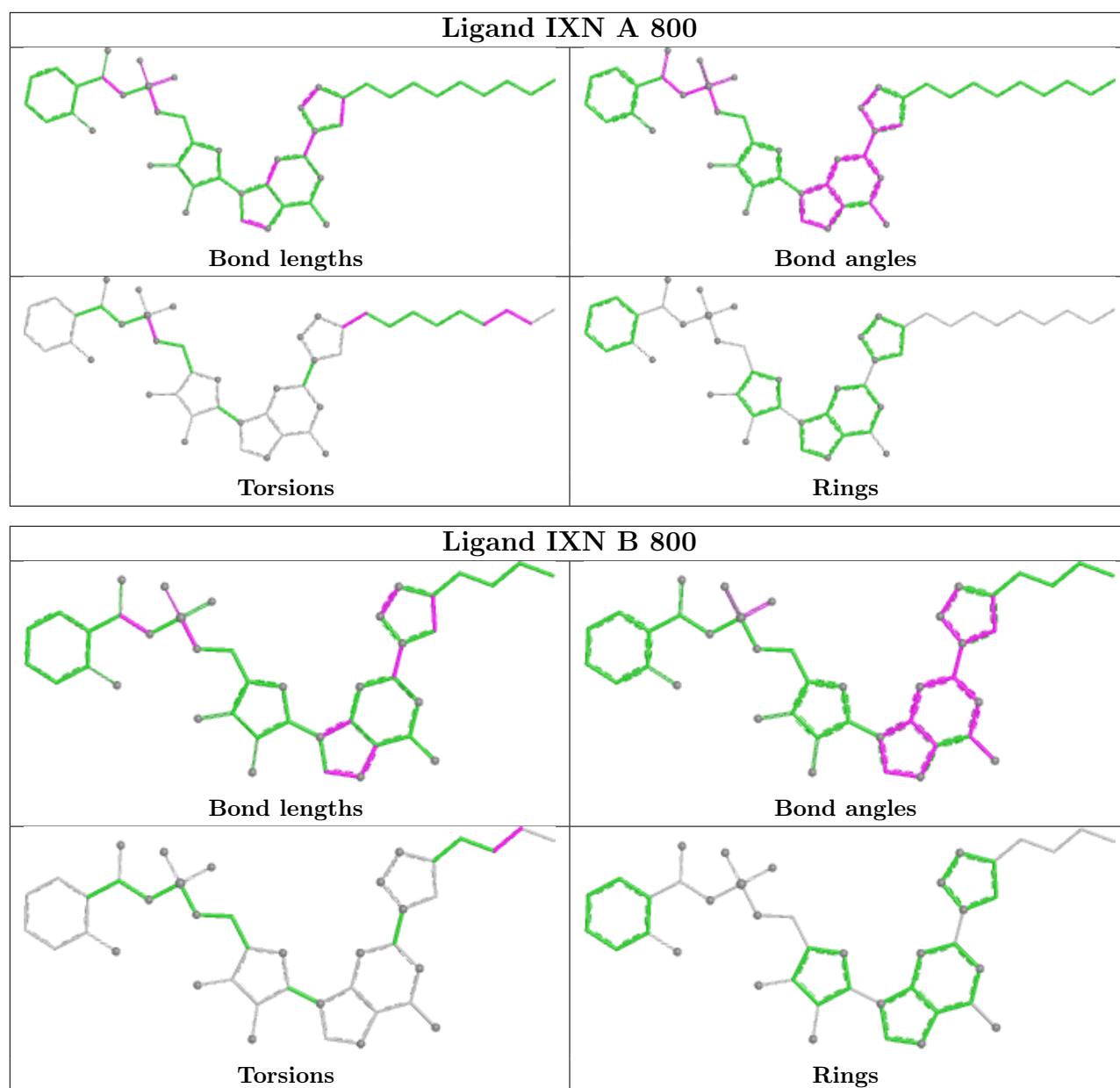
Mol	Chain	Res	Type	Atoms
2	A	800	IXN	C42-C43-C44-C45
2	B	800	IXN	C38-C39-C40-C41
2	A	800	IXN	C43-C44-C45-C46
4	A	546	MPD	O2-C2-C3-C4
5	B	546	MRD	O2-C2-C3-C4
5	B	546	MRD	C2-C3-C4-C5
2	A	800	IXN	C37-C36-C38-C39
2	A	800	IXN	C5'-O5'-S-NHS

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	546	MPD	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

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	433/544 (79%)	0.08	23 (5%) 32 34	12, 24, 46, 56	2 (0%)
1	B	436/544 (80%)	-0.05	11 (2%) 58 62	14, 24, 38, 46	2 (0%)
All	All	869/1088 (79%)	0.01	34 (3%) 43 46	12, 24, 42, 56	4 (0%)

All (34) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	199	GLY	5.4
1	A	199	GLY	4.8
1	A	3	LYS	4.5
1	B	200	SER	4.4
1	A	180	PHE	4.0
1	A	148	HIS	3.8
1	A	198	GLY	3.8
1	A	176	PRO	3.7
1	A	150	VAL	3.2
1	B	3	LYS	3.2
1	B	201	THR	3.1
1	B	180	PHE	3.1
1	A	146	SER	3.0
1	B	438	ASP	3.0
1	A	142	GLN	3.0
1	A	175	THR	2.9
1	A	165	THR	2.8
1	B	198	GLY	2.8
1	A	143	PHE	2.7
1	A	202	GLY	2.7
1	A	115	TYR	2.7
1	A	167	PHE	2.6
1	A	139	SER	2.4
1	A	147	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	426	PRO	2.3
1	B	148[A]	HIS	2.3
1	B	164	ALA	2.3
1	A	412	GLU	2.3
1	A	149	ASP	2.2
1	A	408	GLN	2.2
1	A	401	GLN	2.1
1	B	181	VAL	2.1
1	A	295	GLU	2.1
1	A	378	ARG	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 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.

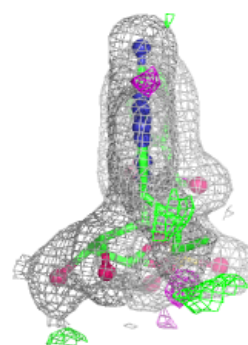
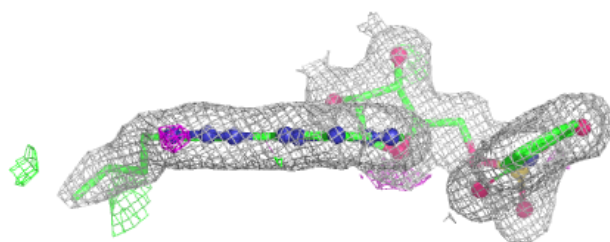
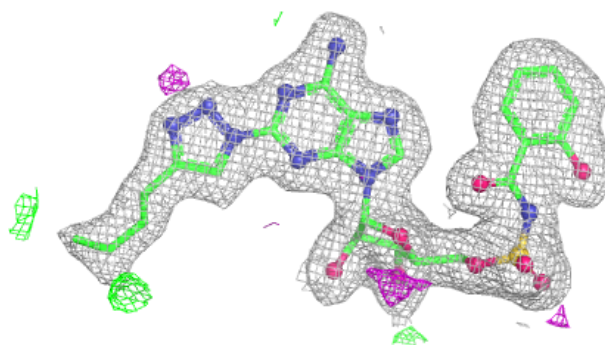
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	MRD	B	546	8/8	0.89	0.16	47,47,49,49	0
4	MPD	A	546	8/8	0.90	0.13	32,34,37,38	0
3	CA	B	544	1/1	0.94	0.13	62,62,62,62	0
3	CA	A	543	1/1	0.96	0.07	34,34,34,34	0
3	CA	B	545	1/1	0.96	0.16	61,61,61,61	0
2	IXN	B	800	41/49	0.98	0.04	16,18,27,33	0
2	IXN	A	800	46/49	0.98	0.06	13,18,41,45	0
3	CA	A	545	1/1	0.99	0.02	20,20,20,20	0
3	CA	B	543	1/1	0.99	0.03	29,29,29,29	0
3	CA	A	544	1/1	0.99	0.07	25,25,25,25	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.

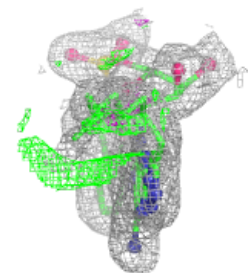
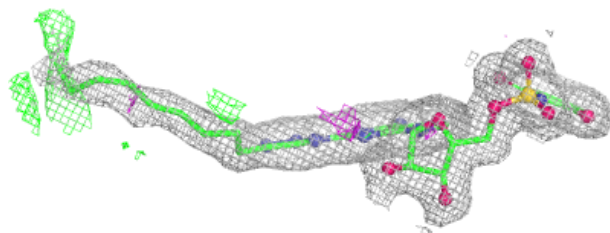
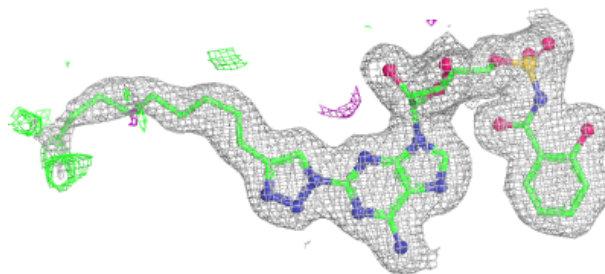
Electron density around IXN B 800:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around IXN A 800:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.