

Full wwPDB X-ray Structure Validation Report (i)

Nov 17, 2024 - 05:48 PM EST

:	4S2O
:	OXA-10 in complex with Avibactam
:	King, D.T.; Strynadka, N.C.J.
:	2015-01-21
:	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 https://www.wwpdb.org/validation/2017/XrayValidationReportHelp with specific help available everywhere you see the (i) 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 (1)) were used in the production of this report:

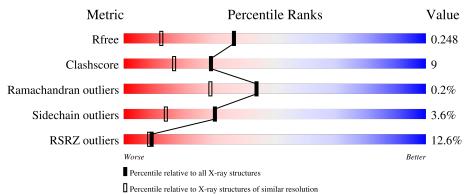
Mogul Xtriage (Phenix) EDS buster-report Percentile statistics CCP4 Density-Fitness Ideal geometry (proteins)	: : : : :	2022.3.0, CSD as543be (2022) 1.20.1 3.0 1.1.7 (2018) 20231227.v01 (using entries in the PDB archive December 27th 2023) 9.0.003 (Gargrove) 1.0.11 Engh & Huber (2001)
Ideal geometry (DNA, RNA) Validation Pipeline (wwPDB-VP)	:	0

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY\;DIFFRACTION$

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	$\begin{array}{c} \textbf{Whole archive} \\ \textbf{(\#Entries)} \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	164625	5161(1.70-1.70)
Clashscore	180529	5671(1.70-1.70)
Ramachandran outliers	177936	5594(1.70-1.70)
Sidechain outliers	177891	5594 (1.70-1.70)
RSRZ outliers	164620	5159 (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 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 <=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	А	246	5% 89%	10%					
1	В	246	83%	14%	•				



2 Entry composition (i)

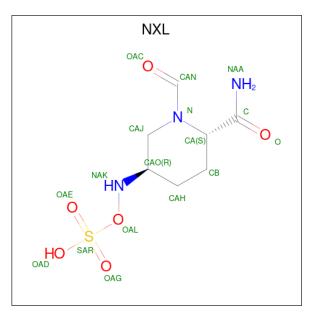
There are 4 unique types of molecules in this entry. The entry contains 4392 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Beta-lactamase OXA-10.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	1 A	245	Total	С	Ν	Ο	S	0	3	0
		240	1962	1253	329	373	$\overline{7}$	0		0
1	В	B 246	Total	С	Ν	0	S	0	2	0
1	1 B	240	1954	1249	328	371	6	0		0

• Molecule 2 is (2S,5R)-1-formyl-5-[(sulfooxy)amino]piperidine-2-carboxamide (three-letter code: NXL) (formula: $C_7H_{13}N_3O_6S$).



I	Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
	2	А	1	Total C N O S 17 7 3 6 1	0	0
	2	В	1	Total C N O S 17 7 3 6 1	0	0

• Molecule 3 is COBALT (II) ION (three-letter code: CO) (formula: Co).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	2	Total Co 2 2	0	0
3	В	2	Total Co 2 2	0	0

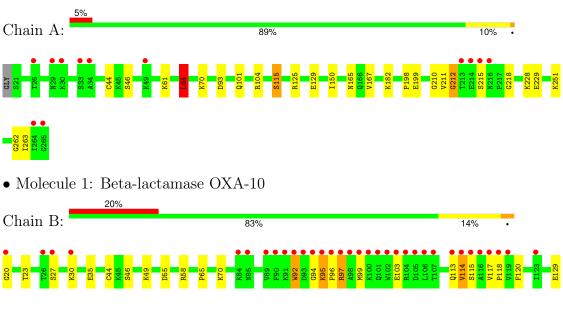
• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	259	Total O 259 259	0	0
4	В	179	Total O 179 179	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: Beta-lactamase OXA-10



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	48.60Å 96.50Å 125.70Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	52.66 - 1.70	Depositor
	52.66 - 1.70	EDS
% Data completeness	97.7 (52.66-1.70)	Depositor
(in resolution range)	97.7(52.66-1.70)	EDS
R_{merge}	(Not available)	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$5.01 (at 1.70 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0071	Depositor
B B.	0.184 , 0.230	Depositor
R, R_{free}	0.213 , 0.248	DCC
R_{free} test set	3223 reflections $(5.00%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	15.8	Xtriage
Anisotropy	0.316	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.36 , 47.8	EDS
L-test for twinning ²	$ \langle L \rangle = 0.49, \langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	4392	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 5.85% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities estimated from amplitudes.

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: NXL, CO

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	Bo	nd lengths	Bond angles		
IVIOI	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.71	1/2003~(0.0%)	0.88	4/2704~(0.1%)	
1	В	0.70	2/1995~(0.1%)	0.85	3/2695~(0.1%)	
All	All	0.71	3/3998~(0.1%)	0.86	7/5399~(0.1%)	

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	В	92	TRP	CB-CG	-5.48	1.40	1.50
1	В	65	PRO	N-CD	5.39	1.55	1.47
1	А	46	SER	CB-OG	-5.02	1.35	1.42

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	В	58	ARG	NE-CZ-NH2	-5.78	117.41	120.30
1	В	182	LYS	CD-CE-NZ	5.65	124.70	111.70
1	А	125	ARG	NE-CZ-NH2	-5.59	117.50	120.30
1	А	64	LEU	CA-CB-CG	5.47	127.88	115.30
1	А	182	LYS	CD-CE-NZ	5.40	124.11	111.70
1	В	55	ASP	CB-CG-OD1	5.34	123.11	118.30
1	А	93	ASP	CB-CG-OD1	5.33	123.09	118.30

All (7) bond angle outliers are listed below:

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



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	А	1962	0	1949	21	0
1	В	1954	0	1946	49	0
2	А	17	0	11	3	0
2	В	17	0	11	4	0
3	А	2	0	0	0	0
3	В	2	0	0	0	0
4	А	259	0	0	7	0
4	В	179	0	0	12	0
All	All	4392	0	3917	68	0

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.

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 9.

All (68) 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:B:49:LYS:HG2	4:B:546:HOH:O	1.58	1.01
1:B:92:TRP:HZ3	1:B:97:ARG:NE	1.58	1.00
1:B:92:TRP:CH2	1:B:97:ARG:HG3	1.95	1.00
1:A:61:LYS:HD3	4:A:658:HOH:O	1.60	0.97
1:B:97:ARG:NH1	1:B:118:PRO:HG2	1.83	0.92
1:B:229:GLU:HG2	4:B:569:HOH:O	1.69	0.91
1:B:92:TRP:CZ3	1:B:97:ARG:NE	2.42	0.87
1:B:92:TRP:HH2	1:B:97:ARG:HG3	1.34	0.87
1:B:97:ARG:HH11	1:B:118:PRO:HG2	1.41	0.82
1:B:229:GLU:CG	4:B:569:HOH:O	2.27	0.78
1:B:92:TRP:NE1	1:B:94:GLY:HA2	1.99	0.77
1:A:115:SER:HB3	2:A:301:NXL:NAK	2.04	0.73
1:B:92:TRP:CZ3	1:B:97:ARG:HG3	2.23	0.73
1:A:101:GLN:HA	1:A:104:ARG:HH12	1.58	0.68
1:B:23[B]:THR:HG23	4:B:504:HOH:O	1.92	0.68
4:A:515:HOH:O	1:B:230:THR:HG21	1.93	0.67
1:B:229:GLU:N	4:B:569:HOH:O	2.30	0.65
1:B:167[A]:VAL:CG1	4:B:452:HOH:O	2.44	0.64
1:B:92:TRP:CH2	1:B:103:GLU:HG2	2.34	0.63
1:A:198:PRO:HA	1:B:113:GLN:HE21	1.64	0.63
1:B:70:LYS:HE2	1:B:115:SER:HA	1.82	0.62
1:A:64:LEU:CD2	4:A:574:HOH:O	2.49	0.60
1:A:61:LYS:CD	4:A:658:HOH:O	2.33	0.56



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:167[A]:VAL:HG12	4:B:452:HOH:O	2.07	0.55
1:B:92:TRP:CH2	1:B:97:ARG:CG	2.82	0.54
1:A:228:LYS:O	1:A:229:GLU:HB2	2.08	0.54
1:A:115:SER:CB	2:A:301:NXL:NAK	2.72	0.53
1:B:152:LYS:NZ	4:B:563:HOH:O	2.41	0.53
1:B:92:TRP:HH2	1:B:97:ARG:CG	2.15	0.52
1:A:199:GLU:HG3	4:A:629:HOH:O	2.09	0.52
1:B:115:SER:HB2	2:B:302:NXL:H12	1.75	0.52
1:A:228:LYS:NZ	1:A:262:GLY:O	2.43	0.51
1:A:70:LYS:HE2	1:A:115:SER:HA	1.93	0.50
1:A:101:GLN:HA	1:A:104:ARG:NH1	2.23	0.50
1:B:44:CYS:SG	1:B:167[A]:VAL:HG11	2.52	0.50
1:B:115:SER:HB3	2:B:302:NXL:H3	1.93	0.50
1:B:92:TRP:HZ3	1:B:97:ARG:CD	2.23	0.49
1:B:92:TRP:CZ3	1:B:97:ARG:CG	2.95	0.49
1:A:64:LEU:HD23	4:A:574:HOH:O	2.12	0.48
1:B:92:TRP:CD1	1:B:94:GLY:HA2	2.48	0.48
1:B:20:GLY:N	1:B:49:LYS:O	2.46	0.48
1:B:129:GLU:HG3	1:B:146:ILE:HD11	1.96	0.48
1:A:44:CYS:SG	1:A:167:VAL:HG11	2.54	0.47
1:B:228:LYS:HE3	1:B:263:ILE:O	2.13	0.47
1:B:49:LYS:CG	4:B:546:HOH:O	2.36	0.47
1:B:92:TRP:CZ2	1:B:95:LYS:O	2.69	0.46
1:A:228:LYS:HD2	1:A:263:ILE:O	2.16	0.46
1:B:92:TRP:CH2	1:B:95:LYS:O	2.69	0.46
1:B:231:GLU:OE1	4:B:506:HOH:O	2.21	0.46
1:B:20:GLY:N	1:B:49:LYS:CB	2.79	0.46
1:B:213:THR:HG1	1:B:215:SER:HG	1.63	0.46
1:B:20:GLY:N	1:B:49:LYS:HB3	2.31	0.45
1:A:198:PRO:HA	1:B:113:GLN:NE2	2.31	0.45
1:B:35:GLU:OE1	4:B:492:HOH:O	2.21	0.45
1:B:115:SER:HB2	2:B:302:NXL:NAK	2.31	0.44
1:B:95:LYS:HB3	1:B:95:LYS:HE2	1.66	0.44
1:A:115:SER:HB3	2:A:301:NXL:H12	1.79	0.43
1:B:96:PRO:O	1:B:97:ARG:HG2	2.17	0.43
1:B:46:SER:HB2	1:B:234:PHE:HE1	1.83	0.43
1:B:155:LEU:HD22	2:B:302:NXL:H6	1.84	0.43
1:A:129[B]:GLU:HG3	1:A:150:ILE:HD13	2.01	0.43
1:B:185:GLN:O	1:B:189:LYS:HG3	2.19	0.42
1:B:70:LYS:HE3	1:B:120:PHE:CD1	2.55	0.42
1:A:251:LYS:HE2	4:A:566:HOH:O	2.19	0.41



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:229:GLU:HG3	4:B:569:HOH:O	2.09	0.41
1:A:210:GLY:O	1:A:218:GLY:HA3	2.19	0.41
1:A:211:VAL:O	1:A:212:GLY:C	2.59	0.41
1:B:114:VAL:O	1:B:114:VAL:HG13	2.21	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	Analysed Favoured Allowed		Outliers	Perce	ntiles
1	А	246/246~(100%)	238~(97%)	7 (3%)	1 (0%)	30	17
1	В	246/246~(100%)	243 (99%)	3 (1%)	0	100	100
All	All	492/492~(100%)	481 (98%)	10~(2%)	1 (0%)	44	29

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	212	GLY

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	А	213/210~(101%)	209~(98%)	4 (2%)	52 37



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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	В	212/210~(101%)	201~(95%)	11 (5%)	19 7
All	All	425/420 (101%)	410 (96%)	15 (4%)	30 15

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	64	LEU
1	А	115	SER
1	А	165	ASN
1	А	215	SER
1	В	27	SER
1	В	30	LYS
1	В	95	LYS
1	В	97	ARG
1	В	99	MET
1	В	114	VAL
1	В	117	VAL
1	В	165	ASN
1	В	213	THR
1	В	228	LYS
1	В	230	THR

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 oligosaccharides in this entry.



5.6 Ligand geometry (i)

Of 6 ligands modelled in this entry, 4 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	Turne	Chain	Dec	Link	Bo	ond leng	\mathbf{ths}	В	ond ang	les
INIOI	Type	Chain	Res	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
2	NXL	В	302	1	14,17,17	1.14	1 (7%)	16,24,24	1.22	1 (6%)
2	NXL	А	301	1	14,17,17	1.13	1 (7%)	16,24,24	1.11	1 (6%)

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.

Mo	l Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NXL	В	302	1	-	1/5/25/25	0/1/1/1
2	NXL	А	301	1	-	1/5/25/25	0/1/1/1

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	В	302	NXL	CAN-N	3.39	1.40	1.34
2	А	301	NXL	CAN-N	3.30	1.40	1.34

All (2) bond length outliers are listed below:

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
2	В	302	NXL	CAH-CAO-CAJ	-2.68	106.23	109.71
2	А	301	NXL	CAJ-N-CAN	2.39	125.89	120.39

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	В	302	NXL	OAC-CAN-N-CAJ
2	А	301	NXL	OAC-CAN-N-CAJ

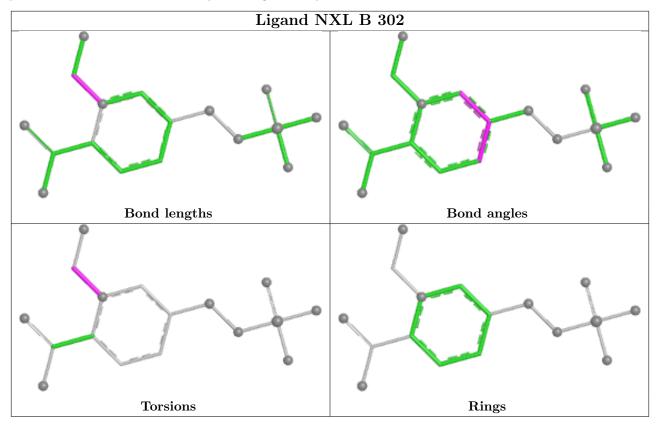


There are no ring outliers.

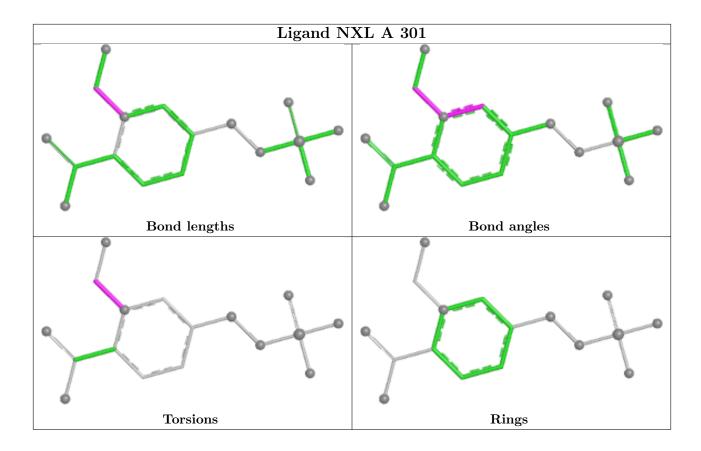
2 monomers are involved in 7 short contacts:

[Mol	Chain	Res	Type	Clashes	Symm-Clashes
	2	В	302	NXL	4	0
	2	А	301	NXL	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 then 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^{th} 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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	245/246~(99%)	0.21	12 (4%) 36 38	6, 13, 33, 50	3 (1%)
1	В	246/246~(100%)	1.21	50 (20%) 3 3	7, 21, 53, 92	2 (0%)
All	All	491/492~(99%)	0.71	62 (12%) 9 8	6, 16, 44, 92	5 (1%)

All (62) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	116	ALA	8.0
1	В	102	TRP	7.4
1	В	92	TRP	5.9
1	В	117	VAL	5.7
1	В	99	MET	5.6
1	В	114	VAL	5.3
1	В	96	PRO	5.1
1	В	97	ARG	4.6
1	В	115	SER	4.4
1	В	104	ARG	4.4
1	В	101	GLN	4.3
1	В	98	ALA	4.3
1	А	26	THR	4.2
1	В	100	LYS	4.2
1	В	103	GLU	4.2
1	В	84	LYS	3.9
1	А	265	GLY	3.9
1	В	91	LYS	3.8
1	В	214	GLU	3.6
1	А	30	LYS	3.6
1	А	264	ILE	3.5
1	В	118	PRO	3.4
1	В	90	PHE	3.4
1	В	213	THR	3.4



Mol	nued fron Chain	Res	Type	RSRZ
1	В	93	ASP	3.3
1	В	89	VAL	3.2
1	В	119	VAL	3.2
1	В	107	THR	3.2
1	В	95	LYS	3.1
1	В	215	SER	2.8
1	А	213	THR	2.8
1	В	106	LEU	2.7
1	В	26	THR	2.7
1	В	94	GLY	2.7
1	В	229	GLU	2.7
1	В	30	LYS	2.7
1	В	216	ASN	2.7
1	В	20	GLY	2.6
1	В	246	LYS	2.5
1	В	217	PRO	2.5
1	В	253	ILE	2.5
1	А	49	LYS	2.4
1	А	215	SER	2.4
1	В	211	VAL	2.4
1	В	148	GLY	2.4
1	А	34	ALA	2.4
1	А	214	GLU	2.3
1	В	265	GLY	2.3
1	В	147	SER	2.3
1	В	113	GLN	2.3
1	В	149	GLY	2.2
1	А	33	SER	2.2
1	В	247	LEU	2.2
1	В	243	ASN	2.2
1	В	212	GLY	2.2
1	В	85	ASN	2.2
1	В	105	ASP	2.1
1	В	150	ILE	2.1
1	А	29	ASN	2.1
1	В	27	SER	2.1
1	В	123	ILE	2.0
1	А	216	ASN	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)

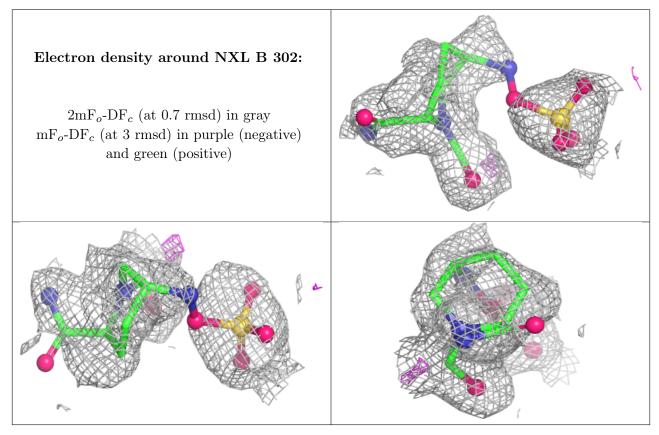
There are no monosaccharides in this entry.

6.4 Ligands (i)

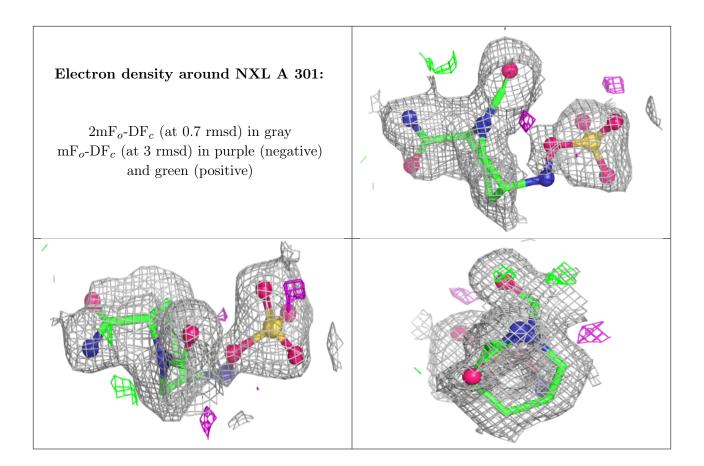
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}(\operatorname{\AA}^2)$	Q<0.9
3	CO	А	303	1/1	0.90	0.13	$67,\!67,\!67,\!67$	0
2	NXL	В	302	17/17	0.92	0.14	21,44,67,68	0
2	NXL	А	301	17/17	0.94	0.13	$13,\!34,\!54,\!63$	0
3	CO	В	303	1/1	0.95	0.08	63,63,63,63	0
3	CO	А	302	1/1	0.98	0.05	19,19,19,19	1
3	CO	В	301	1/1	0.99	0.03	$17,\!17,\!17,\!17$	1

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.

