



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 04:03 PM UTC

PDB ID : 2DV0 / pdb_00002dv0
Title : Human Aldose Reductase complexed with zopolrestat after 6 days soaking(6 days_soaked_2)
Authors : Steuber, H.; Heine, A.; Klebe, G.
Deposited on : 2006-07-28
Resolution : 1.62 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

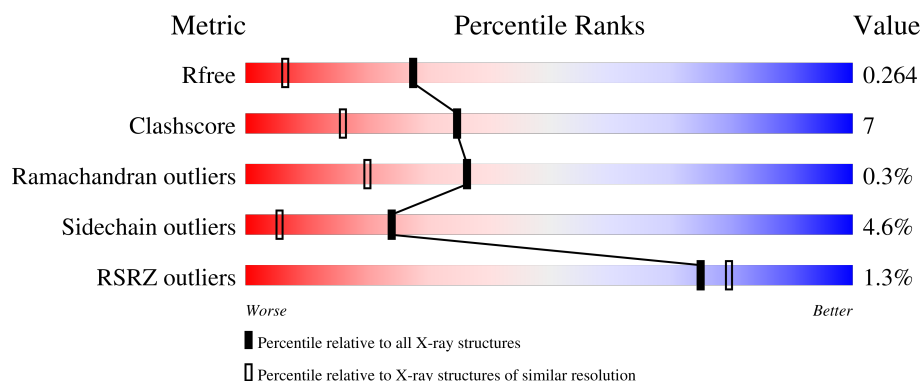
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.62 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	6728 (1.64-1.60)
Clashscore	190562	7023 (1.64-1.60)
Ramachandran outliers	187476	6898 (1.64-1.60)
Sidechain outliers	187428	6896 (1.64-1.60)
RSRZ outliers	180081	6727 (1.64-1.60)

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	316	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 2910 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.

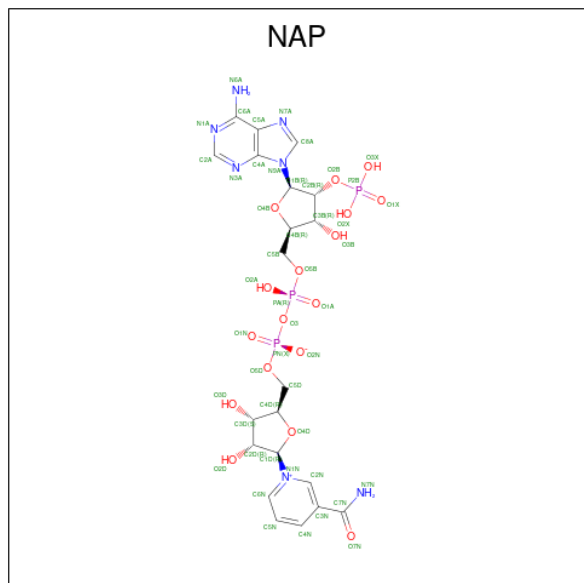
- Molecule 1 is a protein called Aldose reductase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	314	2610	1679	428	489	14	0	22	0

There is a discrepancy between the modelled and reference sequences:

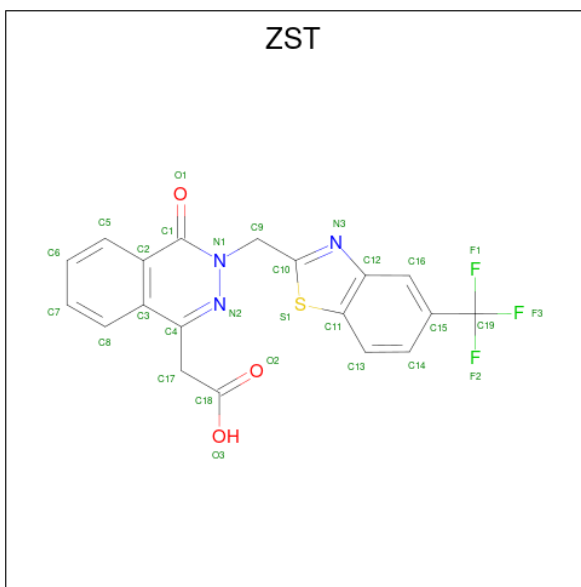
Chain	Residue	Modelled	Actual	Comment	Reference
A	4	ILE	LEU	SEE REMARK 999	UNP P15121

- Molecule 2 is NADP NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (CCD ID: NAP) (formula: $C_{21}H_{28}N_7O_{17}P_3$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
2	A	1	48	21	7	17	3	0	0

- Molecule 3 is 3,4-DIHYDRO-4-OXO-3-((5-TRIFLUOROMETHYL-2-BENZOTHAZOLYL)METHYL)-1-PHTHALAZINE ACETIC ACID (CCD ID: ZST) (formula: $C_{19}H_{12}F_3N_3O_3S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	F	N	O	S	
			29	19	3	3	3	1	0

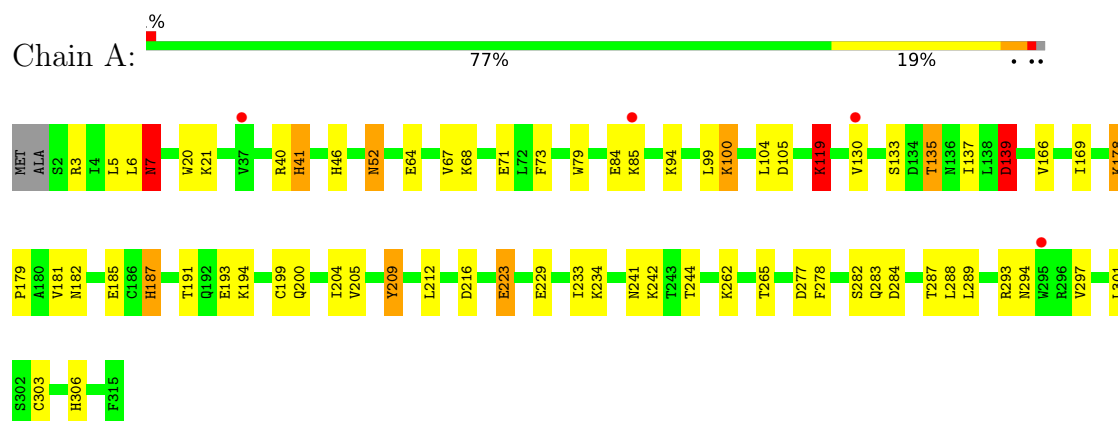
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	223	Total	O		
			223	223	0	0

3 Residue-property plots

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: Aldose reductase



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	49.47Å 67.12Å 47.15Å 90.00° 92.99° 90.00°	Depositor
Resolution (Å)	20.00 – 1.62 20.00 – 1.62	Depositor EDS
% Data completeness (in resolution range)	97.1 (20.00-1.62) 68.9 (20.00-1.62)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.07	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.52 (at 1.62Å)	Xtriage
Refinement program	SHELXL-97	Depositor
R, R_{free}	0.187 , 0.270 0.197 , 0.264	Depositor DCC
R_{free} test set	1299 reflections (4.80%)	wwPDB-VP
Wilson B-factor (Å ²)	22.5	Xtriage
Anisotropy	0.079	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 63.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	0.027 for -l,k,h 0.089 for -h,-k,l 0.055 for l,-k,h	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	2910	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.89% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: NAP, ZST

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	0.56	0/2760	1.56	32/3743 (0.9%)

There are no bond length outliers.

All (32) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	40	ARG	CD-NE-CZ	10.81	139.54	124.40
1	A	209	TYR	CA-CB-CG	10.74	133.22	113.90
1	A	41	HIS	CA-CB-CG	9.53	123.33	113.80
1	A	306	HIS	CA-CB-CG	7.83	121.63	113.80
1	A	139	ASP	CA-CB-CG	-7.56	105.04	112.60
1	A	79	TRP	CA-C-N	6.83	130.11	120.28
1	A	79	TRP	C-N-CA	6.83	130.11	120.28
1	A	241	ASN	CA-CB-CG	6.75	119.35	112.60
1	A	105	ASP	CA-CB-CG	-6.61	105.99	112.60
1	A	187	HIS	CE1-NE2-CD2	-6.25	102.75	109.00
1	A	187	HIS	CG-CD2-NE2	6.24	113.44	107.20
1	A	100	LYS	CA-C-O	5.99	129.56	122.14
1	A	216	ASP	CA-CB-CG	5.99	118.59	112.60
1	A	119	LYS	CA-C-N	-5.95	113.80	122.19
1	A	119	LYS	C-N-CA	-5.95	113.80	122.19
1	A	52	ASN	CA-C-N	5.75	130.42	120.58
1	A	52	ASN	C-N-CA	5.75	130.42	120.58
1	A	283	GLN	CA-C-N	5.68	129.34	120.82
1	A	283	GLN	C-N-CA	5.68	129.34	120.82
1	A	67[A]	VAL	CA-C-O	-5.52	115.93	121.45
1	A	67[B]	VAL	CA-C-O	-5.52	115.93	121.45
1	A	294	ASN	CA-C-N	5.51	130.00	122.84
1	A	294	ASN	C-N-CA	5.51	130.00	122.84
1	A	182	ASN	CA-CB-CG	5.47	118.08	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3	ARG	CA-C-O	-5.43	115.09	121.44
1	A	284	ASP	CA-CB-CG	5.39	117.99	112.60
1	A	7	ASN	CA-CB-CG	5.33	117.93	112.60
1	A	99	LEU	CA-C-N	5.14	130.24	122.68
1	A	99	LEU	C-N-CA	5.14	130.24	122.68
1	A	287	THR	CA-C-N	5.10	127.43	120.54
1	A	287	THR	C-N-CA	5.10	127.43	120.54
1	A	265	THR	CA-C-O	-5.04	116.02	119.29

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	2610	0	2601	40	0
2	A	48	0	25	2	0
3	A	29	0	11	0	0
4	A	223	0	0	6	0
All	All	2910	0	2637	40	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 (40) 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:191[B]:THR:CG2	1:A:193[B]:GLU:OE1	1.97	1.12
1:A:191[B]:THR:HG21	1:A:193[B]:GLU:OE1	1.83	0.79
1:A:191[B]:THR:HG22	1:A:193[B]:GLU:OE1	1.89	0.67
1:A:5:LEU:HD13	1:A:6:LEU:O	1.96	0.66
1:A:191[B]:THR:HG23	1:A:193[B]:GLU:OE1	1.93	0.65
1:A:194:LYS:HG3	4:A:1136:HOH:O	1.99	0.62
1:A:84[A]:GLU:OE2	1:A:133:SER:HB2	2.02	0.59
1:A:46:HIS:CE1	1:A:94[B]:LYS:HE3	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:20:TRP:CE3	1:A:21:LYS:HE3	2.38	0.58
1:A:293[B]:ARG:HD3	4:A:1077:HOH:O	2.02	0.58
1:A:191[B]:THR:HG21	1:A:193[B]:GLU:CD	2.29	0.58
1:A:242:LYS:HD2	1:A:278:PHE:CE1	2.39	0.58
1:A:191[B]:THR:CG2	1:A:193[B]:GLU:CD	2.78	0.57
1:A:179:PRO:O	1:A:204[B]:ILE:HG22	2.05	0.56
1:A:185:GLU:OE2	1:A:187:HIS:HE1	1.89	0.56
1:A:194:LYS:HD2	4:A:1206:HOH:O	2.05	0.55
1:A:85:LYS:HD2	1:A:139:ASP:OD1	2.07	0.54
1:A:191[B]:THR:OG1	1:A:289:LEU:HD23	2.08	0.53
1:A:130:VAL:HG11	1:A:303:CYS:SG	2.50	0.52
1:A:181:VAL:HA	1:A:205:VAL:O	2.12	0.49
1:A:212:LEU:HD13	2:A:500:NAP:PA	2.53	0.48
1:A:119:LYS:O	1:A:119:LYS:HD2	2.14	0.48
1:A:178:LYS:HD2	4:A:1167:HOH:O	2.14	0.48
1:A:200:GLN:HG2	4:A:1097:HOH:O	2.14	0.48
1:A:68:LYS:H	1:A:71[A]:GLU:CD	2.21	0.46
1:A:84[A]:GLU:HG3	1:A:135:THR:CG2	2.47	0.44
1:A:68:LYS:N	1:A:71[A]:GLU:OE2	2.50	0.44
1:A:277:ASP:N	4:A:1063:HOH:O	2.50	0.44
1:A:41:HIS:HA	1:A:73:PHE:O	2.18	0.43
1:A:242:LYS:HE3	1:A:278:PHE:CD1	2.54	0.43
1:A:233:ILE:HG22	1:A:244:THR:HG23	2.01	0.42
1:A:7:ASN:C	1:A:7:ASN:HD22	2.28	0.42
1:A:52:ASN:OD1	1:A:100:LYS:NZ	2.53	0.41
1:A:137:ILE:HD12	1:A:169:ILE:CD1	2.51	0.41
1:A:262:LYS:O	2:A:500:NAP:H8A	2.21	0.41
1:A:199:CYS:O	1:A:204[B]:ILE:HG13	2.21	0.40
1:A:166:VAL:HG11	1:A:204[B]:ILE:CD1	2.52	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	334/316 (106%)	327 (98%)	6 (2%)	1 (0%)	36 20

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	135	THR

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	302/281 (108%)	288 (95%)	14 (5%)	24 5

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	ASN
1	A	104	LEU
1	A	119	LYS
1	A	139	ASP
1	A	178	LYS
1	A	209	TYR
1	A	223[A]	GLU
1	A	223[B]	GLU
1	A	229	GLU
1	A	234	LYS
1	A	282	SER
1	A	288	LEU
1	A	297	VAL
1	A	301	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	7	ASN

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Mol	Chain	Res	Type
1	A	26	GLN
1	A	187	HIS
1	A	200	GLN

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](#)

2 ligands are modelled in this entry.

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	ZST	A	600	-	32,32,32	1.01	1 (3%)	43,48,48	2.55	12 (27%)
2	NAP	A	500	-	50,52,52	1.64	12 (24%)	71,80,80	1.78	13 (18%)

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	ZST	A	600	-	-	0/14/14/14	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NAP	A	500	-	-	3/35/67/67	0/5/5/5

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	500	NAP	C2N-N1N	4.37	1.39	1.35
2	A	500	NAP	PA-O3	3.92	1.63	1.59
2	A	500	NAP	C6N-N1N	3.61	1.43	1.35
3	A	600	ZST	C9-C10	3.17	1.56	1.50
2	A	500	NAP	C2A-N1A	3.06	1.39	1.33
2	A	500	NAP	P2B-O2B	2.82	1.64	1.59
2	A	500	NAP	O4D-C1D	2.58	1.44	1.40
2	A	500	NAP	C4N-C3N	2.46	1.43	1.39
2	A	500	NAP	C4A-N3A	2.44	1.39	1.34
2	A	500	NAP	P2B-O1X	2.30	1.57	1.50
2	A	500	NAP	P2B-O2X	-2.16	1.46	1.54
2	A	500	NAP	C6N-C5N	2.01	1.42	1.38
2	A	500	NAP	C3B-C2B	2.00	1.57	1.53

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	600	ZST	C10-C9-N1	-11.57	102.99	112.10
3	A	600	ZST	O1-C1-N1	6.83	126.28	120.55
2	A	500	NAP	C6N-N1N-C2N	5.60	126.64	121.88
2	A	500	NAP	C6A-C5A-C4A	5.07	124.10	117.18
2	A	500	NAP	C6A-C5A-N7A	-3.91	124.55	132.09
2	A	500	NAP	C5N-C6N-N1N	-3.74	115.28	120.38
3	A	600	ZST	C14-C15-C16	3.54	124.67	117.86
2	A	500	NAP	C2B-C1B-N9A	-3.48	108.03	113.75
3	A	600	ZST	C11-S1-C10	3.45	91.90	89.06
3	A	600	ZST	S1-C10-N3	-3.14	112.30	116.34
2	A	500	NAP	C5A-C4A-N3A	-2.92	122.70	126.72
2	A	500	NAP	N3A-C2A-N1A	-2.72	124.47	128.58
2	A	500	NAP	C2N-C3N-C4N	2.64	121.33	118.26
2	A	500	NAP	O4D-C4D-C3D	-2.58	100.03	105.15
2	A	500	NAP	C4D-O4D-C1D	2.58	112.29	109.92
2	A	500	NAP	O3D-C3D-C4D	2.54	118.39	111.08
3	A	600	ZST	C14-C15-C19	-2.51	115.92	119.96
3	A	600	ZST	C12-N3-C10	2.46	113.31	110.22
3	A	600	ZST	F1-C19-C15	-2.41	107.73	112.90
3	A	600	ZST	F2-C19-C15	2.28	117.78	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	600	ZST	C14-C13-C11	-2.26	116.19	119.94
3	A	600	ZST	C18-C17-C4	-2.17	109.87	113.28
3	A	600	ZST	C12-C16-C15	-2.10	115.87	120.22
2	A	500	NAP	O3-PA-O1A	-2.07	104.48	110.70
2	A	500	NAP	C2A-N1A-C6A	2.06	122.12	118.73

There are no chirality outliers.

All (3) torsion outliers are listed below:

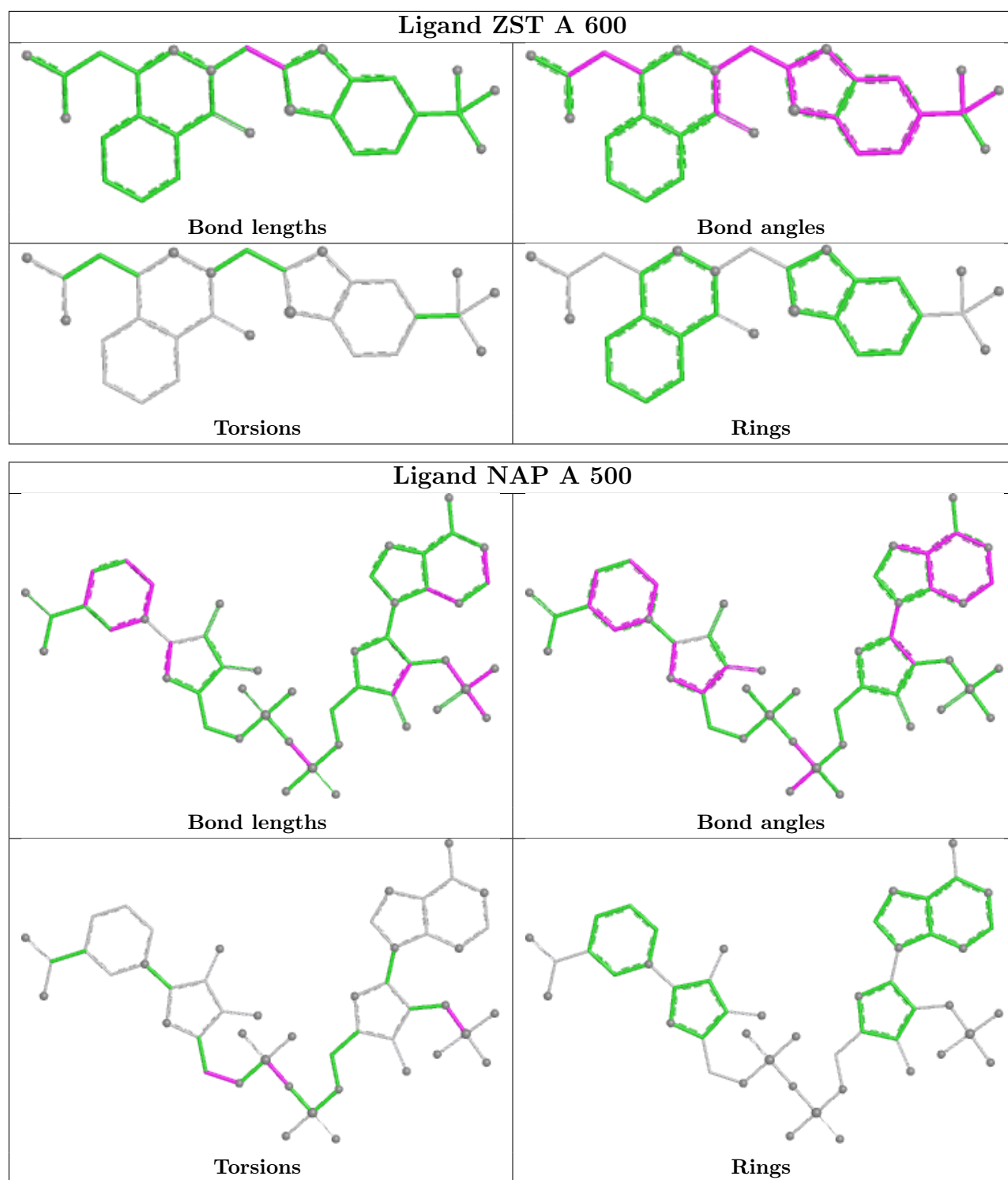
Mol	Chain	Res	Type	Atoms
2	A	500	NAP	PA-O3-PN-O5D
2	A	500	NAP	C4D-C5D-O5D-PN
2	A	500	NAP	C2B-O2B-P2B-O1X

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	500	NAP	2	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 ⓘ

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	314/316 (99%)	0.44	4 (1%) 75 79	11, 22, 35, 54	22 (7%)

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	130	VAL	3.5
1	A	295	TRP	2.7
1	A	37	VAL	2.6
1	A	85	LYS	2.6

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.

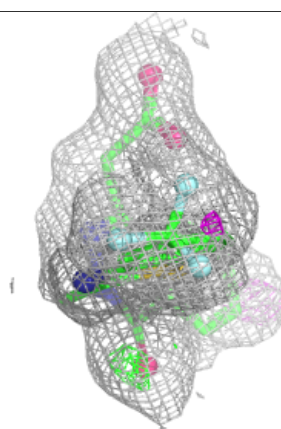
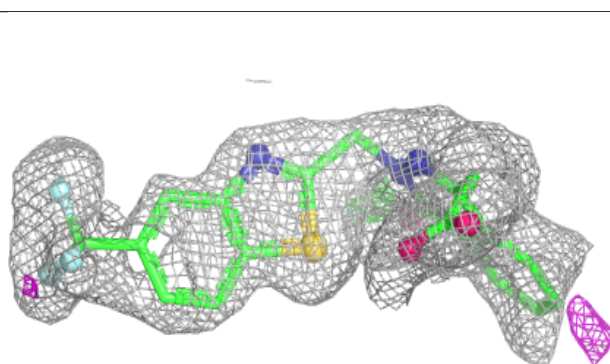
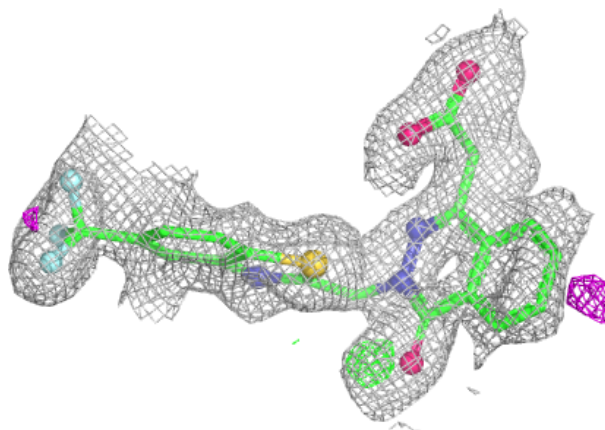
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	ZST	A	600	29/29	0.94	0.08	16,21,25,30	0
2	NAP	A	500	48/48	0.96	0.06	11,18,23,23	0

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.

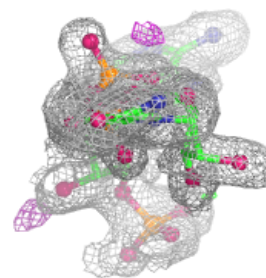
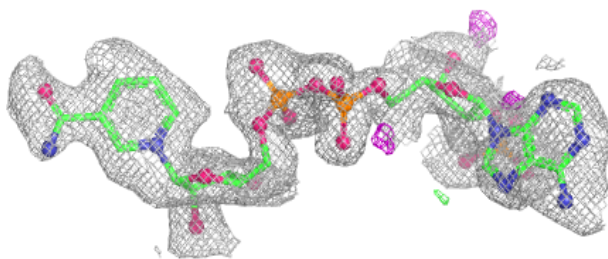
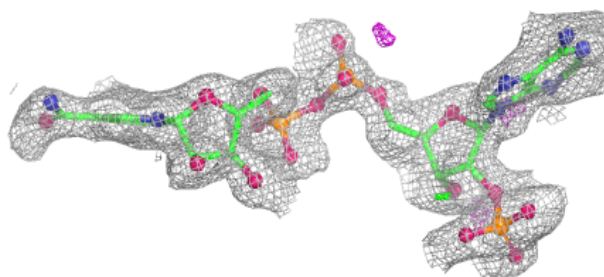
Electron density around ZST A 600:

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



Electron density around NAP A 500:

$2mF_o-DF_c$ (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.