



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 09:27 PM UTC

PDB ID : 1BR5 / pdb_00001br5
Title : RICIN A CHAIN (RECOMBINANT) COMPLEX WITH NEOPTERIN
Authors : Day, P.; Yan, X.; Hollis, T.; Svinth, M.; Monzingo, A.F.; Milne, G.W.A.; Robertus, J.D.
Deposited on : 1998-08-26
Resolution : 2.50 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

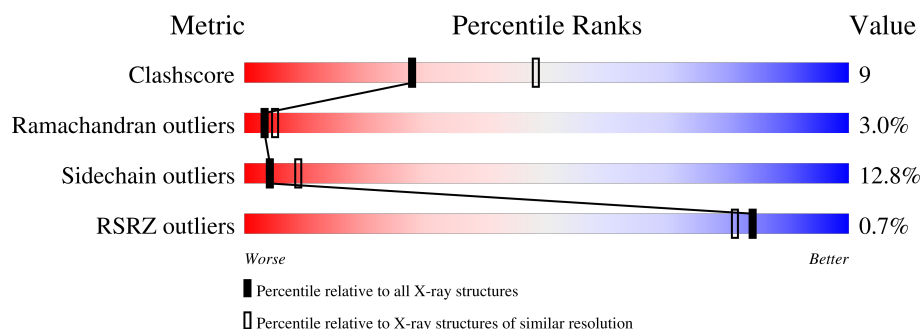
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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))
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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	267	58% 31% 9% .

2 Entry composition [i](#)

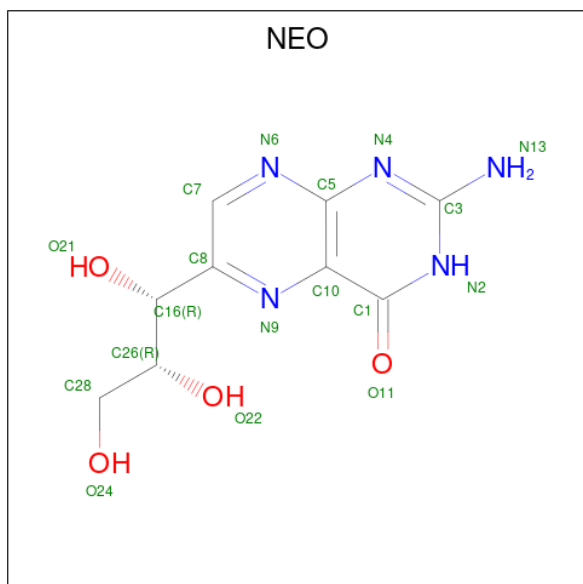
There are 3 unique types of molecules in this entry. The entry contains 2187 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 PROTEIN (RICIN).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	267	Total	C	N	O	S	0	0	0
			2114	1342	372	395	5			

- Molecule 2 is NEOPTERIN (CCD ID: NEO) (formula: $C_9H_{11}N_5O_4$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			18	9	5	4		

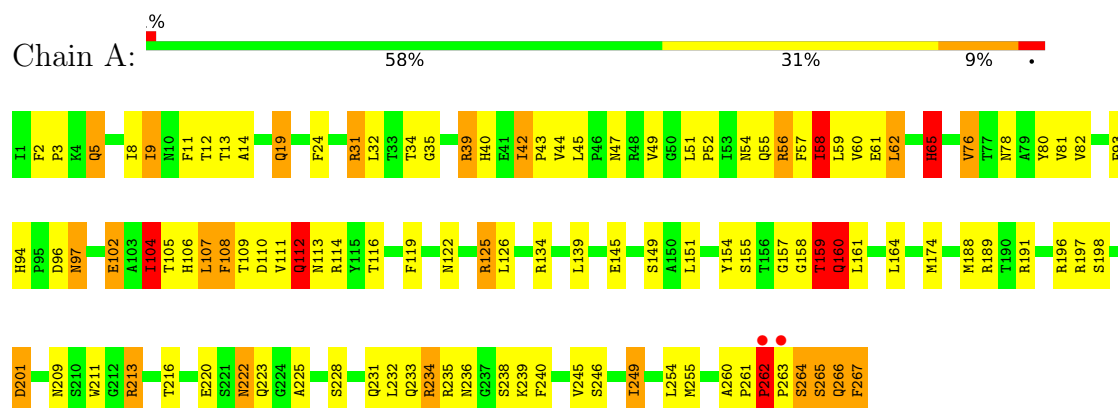
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	55	Total	O	0	0
			55	55		

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: PROTEIN (RICIN)



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	42.81Å 68.79Å 50.09Å 90.00° 112.83° 90.00°	Depositor
Resolution (Å)	10.00 – 2.50 10.00 – 2.50	Depositor EDS
% Data completeness (in resolution range)	96.3 (10.00-2.50) 95.0 (10.00-2.50)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.92 (at 2.50Å)	Xtriage
Refinement program	X-PLOR 3.1	Depositor
R, R_{free}	0.194 , (Not available) 0.188 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	22.1	Xtriage
Anisotropy	0.357	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 96.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	0.055 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	2187	wwPDB-VP
Average B, all atoms (Å ²)	14.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.10% 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: NEO

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	1.07	10/2162 (0.5%)	1.90	60/2941 (2.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	211	TRP	CD2-CE2	8.91	1.56	1.41
1	A	249	ILE	CA-CB	8.35	1.58	1.54
1	A	94	HIS	CD2-NE2	-6.35	1.30	1.37
1	A	106	HIS	CD2-NE2	-6.20	1.31	1.37
1	A	65	HIS	CD2-NE2	-6.15	1.31	1.37
1	A	82	VAL	CA-CB	6.11	1.62	1.54
1	A	40	HIS	CD2-NE2	-6.10	1.31	1.37
1	A	211	TRP	CG-CD2	5.38	1.53	1.43
1	A	262	PRO	CA-C	5.32	1.57	1.52
1	A	265	SER	CA-C	5.04	1.59	1.52

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	211	TRP	CG-CD2-CE3	11.57	145.47	133.90
1	A	267	PHE	CA-CB-CG	9.69	123.49	113.80
1	A	97	ASN	CA-CB-CG	9.63	122.23	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	211	TRP	CE2-CD2-CG	-9.44	95.88	107.20
1	A	40	HIS	CA-CB-CG	8.24	122.04	113.80
1	A	40	HIS	CB-CG-CD2	-7.54	121.40	131.20
1	A	76	VAL	N-CA-CB	-7.08	100.90	110.54
1	A	266	GLN	OE1-CD-NE2	-6.96	115.64	122.60
1	A	40	HIS	CB-CG-ND1	6.95	133.13	122.70
1	A	260	ALA	N-CA-C	6.90	119.64	109.50
1	A	35	GLY	N-CA-C	-6.67	97.37	113.18
1	A	56	ARG	N-CA-C	6.60	120.55	112.23
1	A	110	ASP	CA-CB-CG	6.39	118.99	112.60
1	A	233	GLN	OE1-CD-NE2	-6.35	116.25	122.60
1	A	42	ILE	CA-C-N	6.28	126.23	119.76
1	A	42	ILE	C-N-CA	6.28	126.23	119.76
1	A	249	ILE	O-C-N	-6.25	116.42	120.42
1	A	264	SER	N-CA-C	6.23	124.07	110.80
1	A	113	ASN	CA-CB-CG	6.20	118.80	112.60
1	A	106	HIS	CB-CG-CD2	-6.15	123.20	131.20
1	A	12	THR	CA-CB-OG1	-6.12	100.42	109.60
1	A	78	ASN	CA-CB-CG	6.03	118.63	112.60
1	A	32	LEU	N-CA-C	6.02	118.75	111.40
1	A	228	SER	CA-C-N	5.99	125.75	119.76
1	A	228	SER	C-N-CA	5.99	125.75	119.76
1	A	262	PRO	CB-CA-C	5.96	118.19	110.92
1	A	94	HIS	CB-CG-CD2	-5.92	123.51	131.20
1	A	9	ILE	N-CA-C	-5.90	99.62	108.12
1	A	231	GLN	OE1-CD-NE2	-5.88	116.72	122.60
1	A	245	VAL	N-CA-C	5.86	118.38	111.05
1	A	112	GLN	OE1-CD-NE2	-5.85	116.75	122.60
1	A	65	HIS	CA-CB-CG	-5.80	108.00	113.80
1	A	19	GLN	OE1-CD-NE2	-5.79	116.81	122.60
1	A	49	VAL	N-CA-C	5.73	115.86	110.30
1	A	160	GLN	OE1-CD-NE2	-5.66	116.94	122.60
1	A	213	ARG	NE-CZ-NH1	5.55	127.05	121.50
1	A	58	ILE	N-CA-C	-5.54	100.33	108.85
1	A	93	PHE	O-C-N	-5.49	115.95	122.65
1	A	222	ASN	OD1-CG-ND2	-5.49	117.11	122.60
1	A	236	ASN	OD1-CG-ND2	-5.46	117.14	122.60
1	A	102	GLU	CA-CB-CG	5.42	124.94	114.10
1	A	159	THR	N-CA-CB	-5.40	101.36	110.49
1	A	223	GLN	CA-CB-CG	5.34	124.79	114.10
1	A	47	ASN	OD1-CG-ND2	-5.34	117.26	122.60
1	A	112	GLN	CG-CD-NE2	5.34	124.41	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	54	ASN	OD1-CG-ND2	-5.23	117.37	122.60
1	A	39	ARG	CB-CG-CD	5.22	123.31	111.30
1	A	116	THR	N-CA-C	-5.16	100.49	108.90
1	A	125	ARG	N-CA-C	-5.16	105.57	111.14
1	A	5	GLN	N-CA-C	-5.14	100.79	108.96
1	A	78	ASN	OD1-CG-ND2	-5.12	117.48	122.60
1	A	189	ARG	CA-CB-CG	-5.09	103.92	114.10
1	A	234	ARG	N-CA-C	-5.08	103.70	110.55
1	A	104	ILE	CA-CB-CG2	5.07	119.12	110.50
1	A	158	GLY	CA-C-O	5.07	129.40	120.57
1	A	161	LEU	CA-C-N	5.06	124.50	119.24
1	A	161	LEU	C-N-CA	5.06	124.50	119.24
1	A	201	ASP	CA-C-N	5.03	125.06	119.32
1	A	201	ASP	C-N-CA	5.03	125.06	119.32
1	A	265	SER	N-CA-C	5.00	121.45	110.80

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	261	PRO	Peptide
1	A	262	PRO	Peptide

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	2114	0	2084	38	0
2	A	18	0	11	2	0
3	A	55	0	0	0	0
All	All	2187	0	2095	38	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 9.

All (38) 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:51:LEU:HD23	1:A:56:ARG:HD3	1.63	0.78
1:A:154:TYR:CE1	1:A:159:THR:HG23	2.22	0.74
1:A:2:PHE:CD1	1:A:3:PRO:HD2	2.25	0.70
1:A:234:ARG:HG3	1:A:238:SER:HB2	1.73	0.69
1:A:9:ILE:HD11	1:A:31:ARG:HG2	1.76	0.68
1:A:104:ILE:HA	1:A:107:LEU:HD23	1.79	0.64
1:A:108:PHE:O	1:A:111:VAL:HG22	2.00	0.62
1:A:39:ARG:HB2	1:A:255:MET:HE1	1.85	0.59
1:A:81:VAL:H	2:A:500:NEO:HN2	1.51	0.57
1:A:246:SER:HA	1:A:249:ILE:HD12	1.87	0.57
1:A:14:ALA:HA	1:A:65:HIS:CD2	2.43	0.54
1:A:134:ARG:HH22	1:A:209:ASN:HD21	1.57	0.53
1:A:13:THR:HB	1:A:145:GLU:HG3	1.90	0.53
1:A:216:THR:O	1:A:220:GLU:HG2	2.10	0.52
1:A:262:PRO:HB2	1:A:263:PRO:O	2.10	0.52
1:A:174:MET:HG2	1:A:188:MET:SD	2.50	0.51
1:A:159:THR:HG22	1:A:160:GLN:H	1.76	0.51
1:A:222:ASN:OD1	1:A:225:ALA:HB3	2.10	0.51
1:A:112:GLN:HE21	1:A:112:GLN:N	2.10	0.49
1:A:80:TYR:HA	2:A:500:NEO:O11	2.13	0.49
1:A:151:LEU:HD23	1:A:164:LEU:HD22	1.95	0.48
1:A:107:LEU:O	1:A:109:THR:HG23	2.14	0.48
1:A:134:ARG:HH12	1:A:209:ASN:HD21	1.62	0.48
1:A:60:VAL:HG12	1:A:62:LEU:HD13	1.95	0.47
1:A:234:ARG:HG2	1:A:240:PHE:CD1	2.52	0.45
1:A:119:PHE:HB2	1:A:125:ARG:HG2	2.00	0.44
1:A:159:THR:HG22	1:A:160:GLN:N	2.32	0.44
1:A:11:PHE:HB2	1:A:24:PHE:CD1	2.53	0.44
1:A:139:LEU:O	1:A:197:ARG:HA	2.17	0.43
1:A:154:TYR:HE1	1:A:159:THR:HG23	1.75	0.43
1:A:42:ILE:HA	1:A:43:PRO:HD3	1.89	0.43
1:A:134:ARG:HH12	1:A:209:ASN:ND2	2.16	0.42
1:A:58:ILE:HD13	1:A:76:VAL:CG2	2.49	0.42
1:A:57:PHE:CE2	1:A:107:LEU:HD21	2.55	0.41
1:A:105:THR:HA	1:A:114:ARG:HH12	1.86	0.41
1:A:191:ARG:HA	1:A:196:ARG:HB3	2.01	0.41
1:A:51:LEU:HA	1:A:52:PRO:HD2	1.97	0.41
1:A:201:ASP:CG	1:A:235:ARG:HG3	2.46	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	265/267 (99%)	240 (91%)	17 (6%)	8 (3%)	3 5

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	108	PHE
1	A	262	PRO
1	A	264	SER
1	A	157	GLY
1	A	265	SER
1	A	159	THR
1	A	160	GLN
1	A	107	LEU

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	226/226 (100%)	197 (87%)	29 (13%)	4 9

All (29) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	GLN
1	A	8	ILE
1	A	19	GLN

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Mol	Chain	Res	Type
1	A	31	ARG
1	A	34	THR
1	A	44	VAL
1	A	45	LEU
1	A	55	GLN
1	A	58	ILE
1	A	59	LEU
1	A	61	GLU
1	A	62	LEU
1	A	65	HIS
1	A	96	ASP
1	A	97	ASN
1	A	102	GLU
1	A	104	ILE
1	A	112	GLN
1	A	122	ASN
1	A	126	LEU
1	A	149	SER
1	A	155	SER
1	A	198	SER
1	A	213	ARG
1	A	232	LEU
1	A	239	LYS
1	A	254	LEU
1	A	266	GLN
1	A	267	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	10	ASN
1	A	19	GLN
1	A	64	ASN
1	A	88	ASN
1	A	112	GLN
1	A	113	ASN
1	A	209	ASN

5.3.3 RNA ⓘ

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](#)

1 ligand is 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
2	NEO	A	500	-	18,19,19	2.08	4 (22%)	16,27,27	1.93	5 (31%)

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	NEO	A	500	-	-	9/10/10/10	0/2/2/2

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	500	NEO	O11-C1	6.56	1.38	1.23
2	A	500	NEO	C10-C1	-3.13	1.41	1.47
2	A	500	NEO	C8-N9	3.05	1.38	1.34
2	A	500	NEO	C28-C26	2.35	1.58	1.52

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	500	NEO	C1-C10-N9	3.98	126.07	118.17
2	A	500	NEO	C10-C1-N2	3.32	120.40	114.07
2	A	500	NEO	N13-C3-N2	2.39	121.80	116.76
2	A	500	NEO	O11-C1-N2	-2.35	117.83	120.62
2	A	500	NEO	N2-C3-N4	-2.07	119.52	123.32

There are no chirality outliers.

All (9) torsion outliers are listed below:

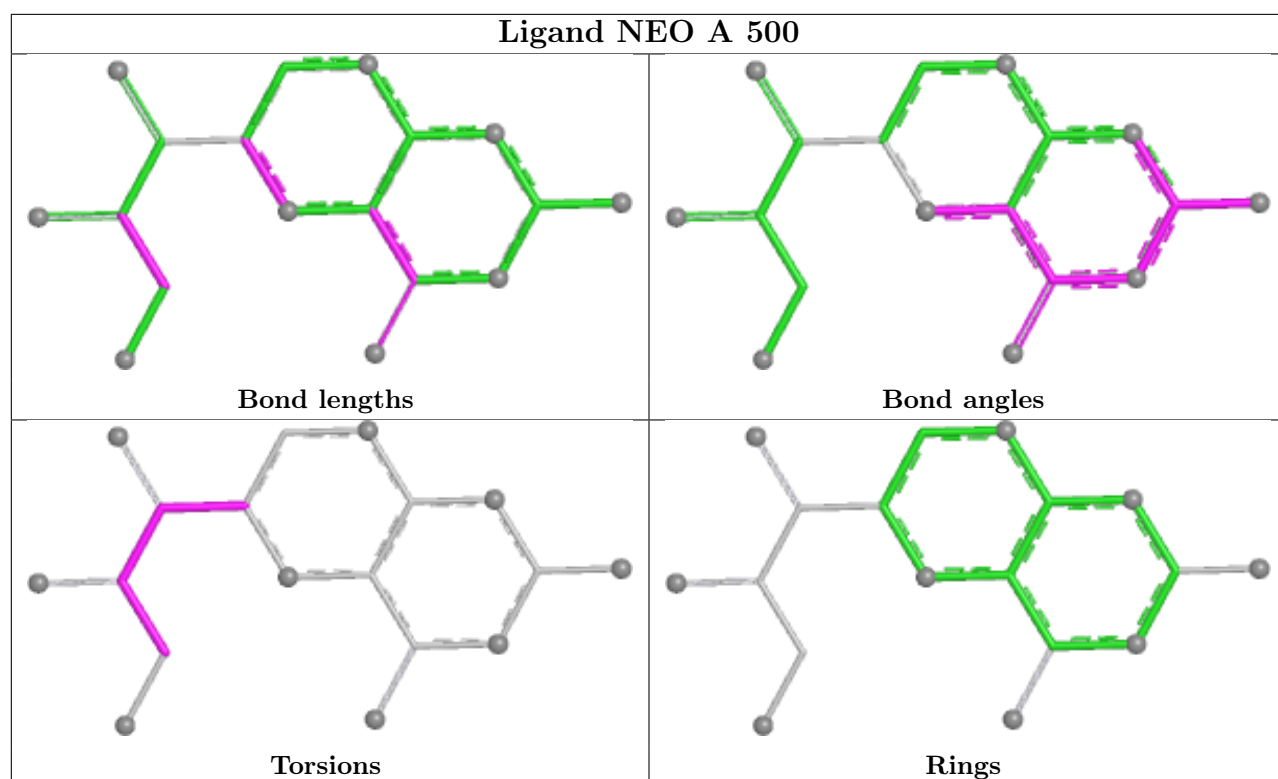
Mol	Chain	Res	Type	Atoms
2	A	500	NEO	O21-C16-C8-N9
2	A	500	NEO	O21-C16-C8-C7
2	A	500	NEO	C8-C16-C26-O22
2	A	500	NEO	C8-C16-C26-C28
2	A	500	NEO	O21-C16-C26-O22
2	A	500	NEO	O21-C16-C26-C28
2	A	500	NEO	C16-C26-C28-O24
2	A	500	NEO	O22-C26-C28-O24
2	A	500	NEO	C26-C16-C8-N9

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	500	NEO	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 [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, 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	267/267 (100%)	-0.47	2 (0%) 84 81	4, 13, 27, 36	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	263	PRO	2.5
1	A	262	PRO	2.3

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](#)

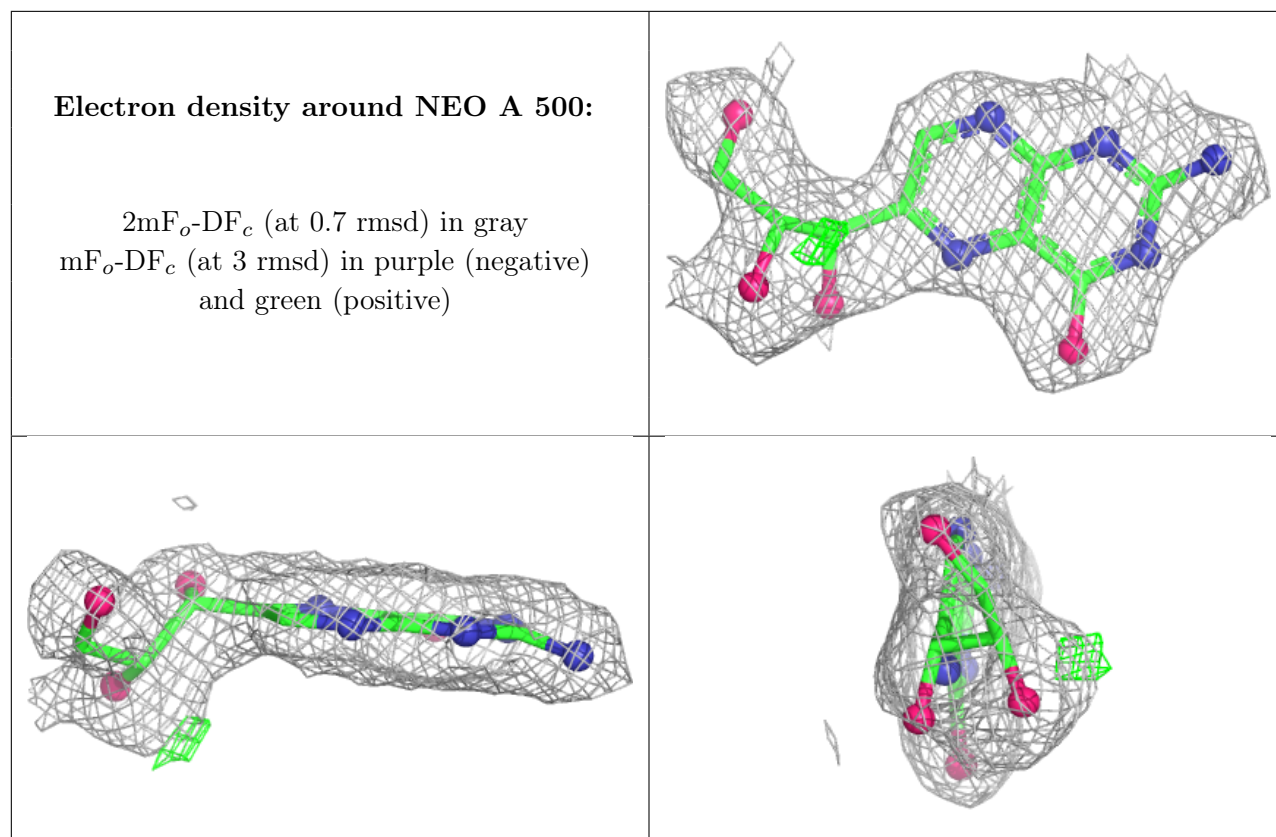
There are no oligosaccharides in this entry.

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
2	NEO	A	500	18/18	0.95	0.08	6,12,19,21	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.