



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 09:48 PM UTC

PDB ID : 2YB9 / pdb_00002yb9
Title : Crystal Structure of Human Neutral Endopeptidase complexed with a heteroarylgalanine diacid.
Authors : Glossop, M.S.; Bazin, R.J.; Dack, K.N.; Done, S.; Fox, D.N.A.; MacDonald, G.A.; Mills, M.; Owen, D.R.; Phillips, C.; Reeves, K.A.; Ringer, T.J.; Strang, R.S.; Watson, C.A.L.
Deposited on : 2011-03-02
Resolution : 2.40 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](#) ①) 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

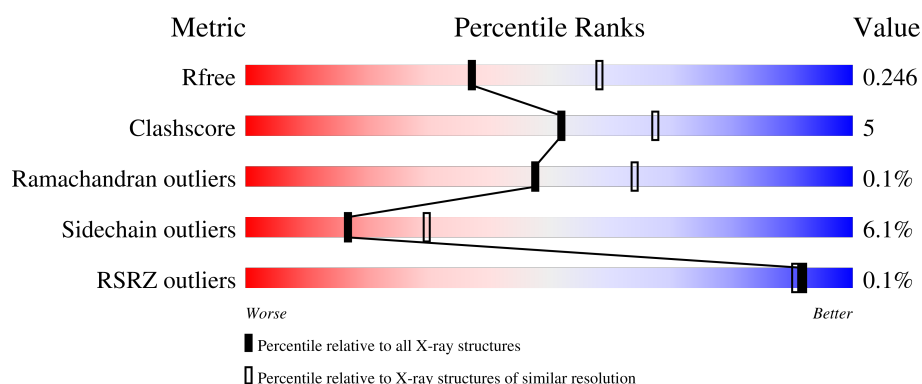
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)

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	696	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 6110 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.

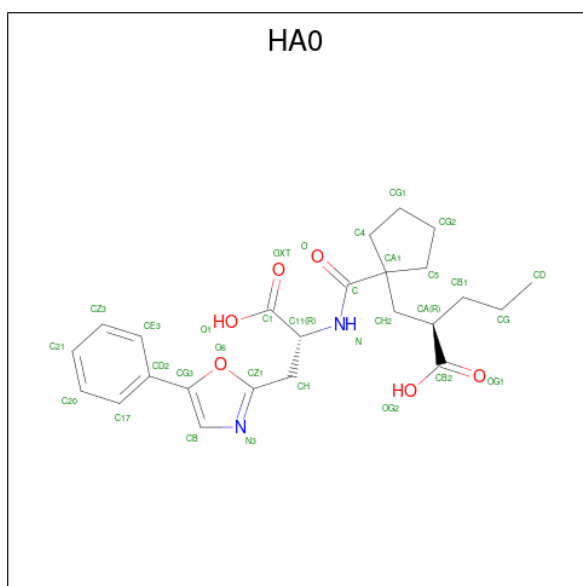
- Molecule 1 is a protein called NEPRILYSIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	696	Total	C	N	O	S	0	0	0
			5595	3538	957	1074	26			

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

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

- Molecule 3 is HETEROARYLALANINE 5-PHENYL OXAZOLE (CCD ID: HA0) (formula: C₂₄H₃₀N₂O₆).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			32	24	2	6		

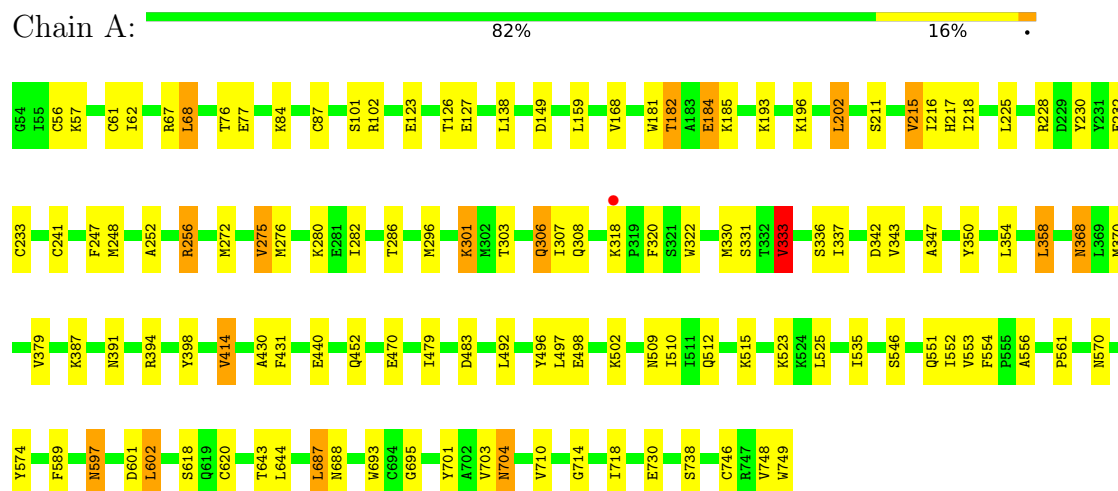
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	482	Total 482	O 482	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: NEPRILYSIN



4 Data and refinement statistics

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	107.84Å 107.84Å 112.79Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	31.13 – 2.40 31.13 – 2.40	Depositor EDS
% Data completeness (in resolution range)	99.3 (31.13-2.40) 99.3 (31.13-2.40)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$	-	Xtriage
Refinement program	BUSTER 2.9.6	Depositor
R, R_{free}	0.172 , 0.243 0.175 , 0.246	Depositor DCC
R_{free} test set	1516 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å ²)	27.9	Xtriage
Anisotropy	0.065	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 51.2	EDS
L-test for twinning ¹	$\langle L \rangle = 0.53$, $\langle L^2 \rangle = 0.37$	Xtriage
Estimated twinning fraction	0.000 for -h,-k,l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6110	wwPDB-VP
Average B, all atoms (Å ²)	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.81% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Theoretical 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: HA0, ZN

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	0.85	1/5713 (0.0%)	1.43	32/7727 (0.4%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	561	PRO	CA-C	5.95	1.55	1.51

All (32) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	247	PHE	CA-CB-CG	7.74	121.54	113.80
1	A	333	VAL	N-CA-CB	-7.44	102.49	112.16
1	A	704	ASN	CA-CB-CG	6.95	119.55	112.60
1	A	228	ARG	CA-C-N	6.61	129.44	120.38
1	A	228	ARG	C-N-CA	6.61	129.44	120.38
1	A	275	VAL	N-CA-CB	6.34	120.09	110.58
1	A	738	SER	N-CA-C	-6.19	102.19	110.55
1	A	431	PHE	N-CA-C	6.18	119.03	109.07
1	A	430	ALA	N-CA-C	5.45	120.94	113.97
1	A	232	GLU	N-CA-C	-5.44	105.35	111.28
1	A	149	ASP	CA-C-N	5.34	127.69	120.38
1	A	149	ASP	C-N-CA	5.34	127.69	120.38
1	A	331	SER	CA-C-N	5.34	128.18	120.38
1	A	331	SER	C-N-CA	5.34	128.18	120.38
1	A	387	LYS	CA-C-N	5.30	127.92	120.28
1	A	387	LYS	C-N-CA	5.30	127.92	120.28
1	A	126	THR	CB-CA-C	5.30	119.20	110.88
1	A	87	CYS	CA-C-N	5.25	125.91	120.03
1	A	87	CYS	C-N-CA	5.25	125.91	120.03
1	A	333	VAL	CB-CA-C	5.19	117.99	111.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	68	LEU	CA-C-N	5.17	127.08	120.56
1	A	68	LEU	C-N-CA	5.17	127.08	120.56
1	A	496	TYR	CA-C-N	5.11	127.38	120.38
1	A	496	TYR	C-N-CA	5.11	127.38	120.38
1	A	211	SER	N-CA-C	5.11	119.00	112.87
1	A	556	ALA	CA-C-N	5.07	125.61	119.98
1	A	556	ALA	C-N-CA	5.07	125.61	119.98
1	A	452	GLN	CA-C-N	5.04	127.54	120.28
1	A	452	GLN	C-N-CA	5.04	127.54	120.28
1	A	483	ASP	CA-C-N	5.04	127.74	120.38
1	A	483	ASP	C-N-CA	5.04	127.74	120.38
1	A	391	ASN	N-CA-C	5.02	119.65	111.37

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	5595	0	5458	54	0
2	A	1	0	0	0	0
3	A	32	0	28	4	0
4	A	482	0	0	0	0
All	All	6110	0	5486	54	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 5.

All (54) 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:233:CYS:HG	1:A:241:CYS:HG	0.95	0.82
1:A:202:LEU:HD11	1:A:216:ILE:HG23	1.66	0.76
1:A:202:LEU:CD1	1:A:216:ILE:HG23	2.18	0.74
1:A:303:THR:HG23	1:A:306:GLN:HE21	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:56:CYS:HG	1:A:61:CYS:HG	1.44	0.64
1:A:354:LEU:HG	1:A:358:LEU:HD22	1.82	0.62
1:A:68:LEU:HD22	1:A:687:LEU:HD13	1.85	0.58
1:A:535:ILE:HD13	1:A:546:SER:HB2	1.85	0.58
1:A:182:THR:HG22	1:A:185:LYS:H	1.68	0.57
1:A:168:VAL:H	1:A:368:ASN:HD21	1.53	0.56
1:A:276:MET:HG3	1:A:280:LYS:HE3	1.88	0.56
1:A:67:ARG:HH12	1:A:688:ASN:ND2	2.04	0.55
1:A:347:ALA:HB1	1:A:350:TYR:HB3	1.89	0.55
1:A:502:LYS:H	1:A:509:ASN:HD21	1.53	0.54
1:A:182:THR:CG2	1:A:184:GLU:HG2	2.38	0.53
1:A:695:GLY:HA3	3:A:1751:HA0:C21	2.39	0.53
1:A:714:GLY:HA3	3:A:1751:HA0:HZ3	1.90	0.53
1:A:252:ALA:O	1:A:256:ARG:HG3	2.11	0.51
1:A:333:VAL:HG22	1:A:523:LYS:HG3	1.93	0.50
1:A:303:THR:H	1:A:306:GLN:HG3	1.74	0.50
1:A:597:ASN:ND2	1:A:601:ASP:H	2.10	0.49
1:A:282:ILE:O	1:A:286:THR:HG23	2.13	0.49
1:A:570:ASN:O	1:A:574:TYR:HD1	1.97	0.47
1:A:76:THR:HG21	1:A:84:LYS:HB3	1.97	0.47
1:A:138:LEU:HD23	1:A:414:VAL:HB	1.96	0.46
1:A:225:LEU:HD13	1:A:230:TYR:HB3	1.98	0.46
1:A:330:MET:HE2	1:A:525:LEU:HD22	1.97	0.46
1:A:101:SER:OG	1:A:398:TYR:HB3	2.16	0.45
1:A:102:ARG:HG3	3:A:1751:HA0:H17	1.98	0.45
1:A:589:PHE:HB3	1:A:749:TRP:CZ2	2.52	0.44
1:A:67:ARG:HH12	1:A:688:ASN:HD22	1.66	0.44
1:A:693:TRP:HB2	1:A:718:ILE:HD11	1.98	0.44
1:A:101:SER:HB3	1:A:701:TYR:CG	2.53	0.44
1:A:296:MET:HE2	1:A:602:LEU:HD22	2.00	0.44
1:A:643:THR:HA	1:A:710:VAL:O	2.16	0.44
1:A:181:TRP:HZ2	1:A:370:MET:HE1	1.82	0.43
1:A:248:MET:HB3	1:A:272:MET:SD	2.59	0.43
1:A:307:ILE:HD11	1:A:343:VAL:HB	2.01	0.43
1:A:102:ARG:HE	3:A:1751:HA0:HB	1.84	0.42
1:A:301:LYS:HD2	1:A:342:ASP:HB3	2.02	0.42
1:A:552:ILE:HD12	1:A:554:PHE:HE2	1.85	0.42
1:A:168:VAL:N	1:A:368:ASN:HD21	2.17	0.42
1:A:535:ILE:HG12	1:A:553:VAL:HG21	2.02	0.42
1:A:618:SER:HB3	1:A:644:LEU:HD21	2.01	0.41
1:A:597:ASN:HD22	1:A:597:ASN:C	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:193:LYS:O	1:A:515:LYS:HG2	2.20	0.41
1:A:215:VAL:HG23	1:A:217:HIS:CE1	2.56	0.41
1:A:308:GLN:NE2	1:A:320:PHE:O	2.54	0.41
1:A:620:CYS:HG	1:A:746:CYS:HG	0.44	0.41
1:A:67:ARG:HH22	1:A:688:ASN:ND2	2.18	0.41
1:A:218:ILE:HD13	1:A:322:TRP:CZ3	2.56	0.41
1:A:440:GLU:HG2	1:A:479:ILE:HD13	2.02	0.41
1:A:182:THR:HB	1:A:185:LYS:HE3	2.03	0.40
1:A:368:ASN:HD22	1:A:368:ASN:HA	1.73	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	694/696 (100%)	674 (97%)	19 (3%)	1 (0%)	48 64

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	318	LYS

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	605/605 (100%)	568 (94%)	37 (6%)	17	30

All (37) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	57	LYS
1	A	62	ILE
1	A	77	GLU
1	A	123	GLU
1	A	127	GLU
1	A	159	LEU
1	A	182	THR
1	A	184	GLU
1	A	196	LYS
1	A	202	LEU
1	A	215	VAL
1	A	256	ARG
1	A	275	VAL
1	A	301	LYS
1	A	306	GLN
1	A	333	VAL
1	A	336	SER
1	A	337	ILE
1	A	358	LEU
1	A	368	ASN
1	A	379	VAL
1	A	394	ARG
1	A	414	VAL
1	A	470	GLU
1	A	492	LEU
1	A	497	LEU
1	A	498	GLU
1	A	510	ILE
1	A	512	GLN
1	A	551	GLN
1	A	597	ASN
1	A	602	LEU
1	A	687	LEU
1	A	703	VAL
1	A	704	ASN
1	A	730	GLU
1	A	748	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (16) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	201	ASN
1	A	273	ASN
1	A	306	GLN
1	A	316	ASN
1	A	368	ASN
1	A	391	ASN
1	A	509	ASN
1	A	550	ASN
1	A	592	ASN
1	A	597	ASN
1	A	617	GLN
1	A	619	GLN
1	A	636	GLN
1	A	662	GLN
1	A	688	ASN
1	A	704	ASN

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 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 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	HA0	A	1751	2	33,34,34	2.19	9 (27%)	35,47,47	2.08	11 (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
3	HA0	A	1751	2	-	4/34/43/43	0/3/3/3

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1751	HA0	CB-N3	6.96	1.50	1.37
3	A	1751	HA0	CZ1-N3	5.20	1.34	1.29
3	A	1751	HA0	CE3-CD2	3.80	1.45	1.39
3	A	1751	HA0	C17-CD2	3.41	1.44	1.39
3	A	1751	HA0	CH-CZ1	3.28	1.54	1.49
3	A	1751	HA0	C21-C20	2.65	1.44	1.38
3	A	1751	HA0	C20-C17	2.44	1.43	1.38
3	A	1751	HA0	CZ3-CE3	2.27	1.42	1.38
3	A	1751	HA0	CB-CG3	2.06	1.38	1.34

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1751	HA0	OG2-CB2-CA	-4.07	103.60	114.16
3	A	1751	HA0	C11-N-C	4.05	129.14	121.46
3	A	1751	HA0	CD2-CG3-CB	-3.92	130.50	135.21
3	A	1751	HA0	OG1-CB2-CA	3.49	132.10	122.86
3	A	1751	HA0	CH-C11-C1	3.46	117.70	110.79
3	A	1751	HA0	CG3-CB-N3	-3.44	106.66	110.07
3	A	1751	HA0	O6-CG3-CD2	3.39	120.75	116.73
3	A	1751	HA0	CG1-C4-CA1	3.32	109.09	105.00
3	A	1751	HA0	CA1-C-N	-3.17	109.79	117.33
3	A	1751	HA0	O-C-N	2.35	127.44	122.71
3	A	1751	HA0	CZ3-CE3-CD2	2.22	122.55	120.36

There are no chirality outliers.

All (4) torsion outliers are listed below:

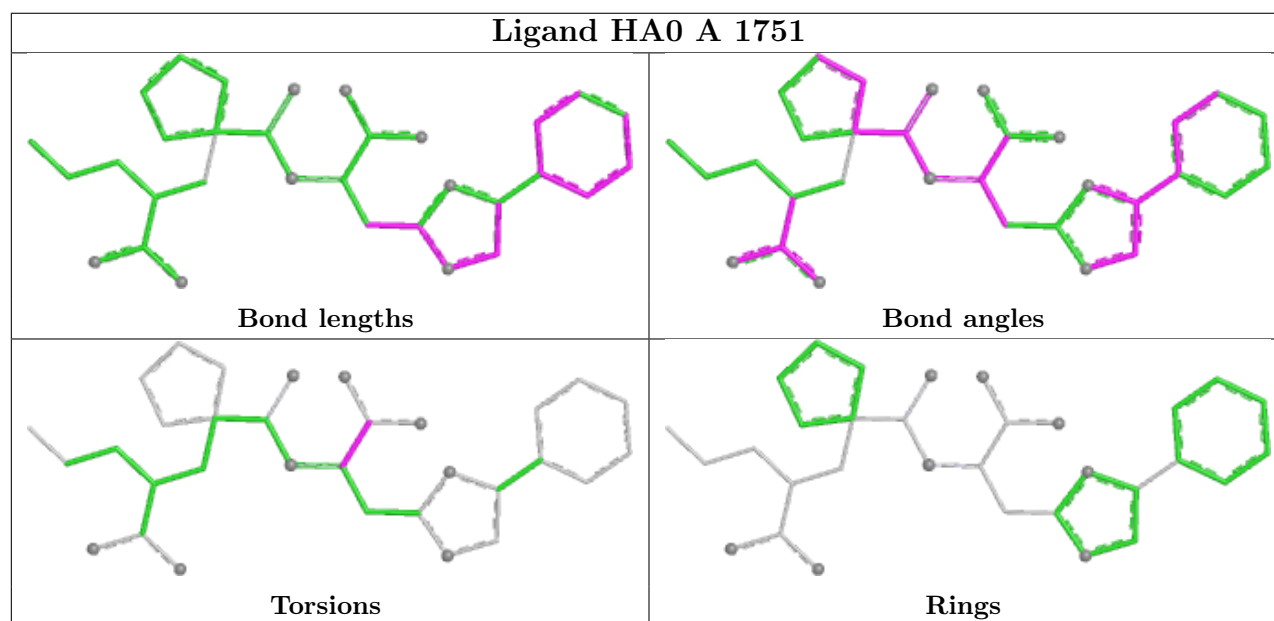
Mol	Chain	Res	Type	Atoms
3	A	1751	HA0	O1-C1-C11-N
3	A	1751	HA0	OXT-C1-C11-N
3	A	1751	HA0	OXT-C1-C11-CH
3	A	1751	HA0	O1-C1-C11-CH

There are no ring outliers.

1 monomer is involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1751	HA0	4	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

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	696/696 (100%)	-0.30	1 (0%) 92 90	12, 28, 52, 69	0

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	318	LYS	2.2

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](#)

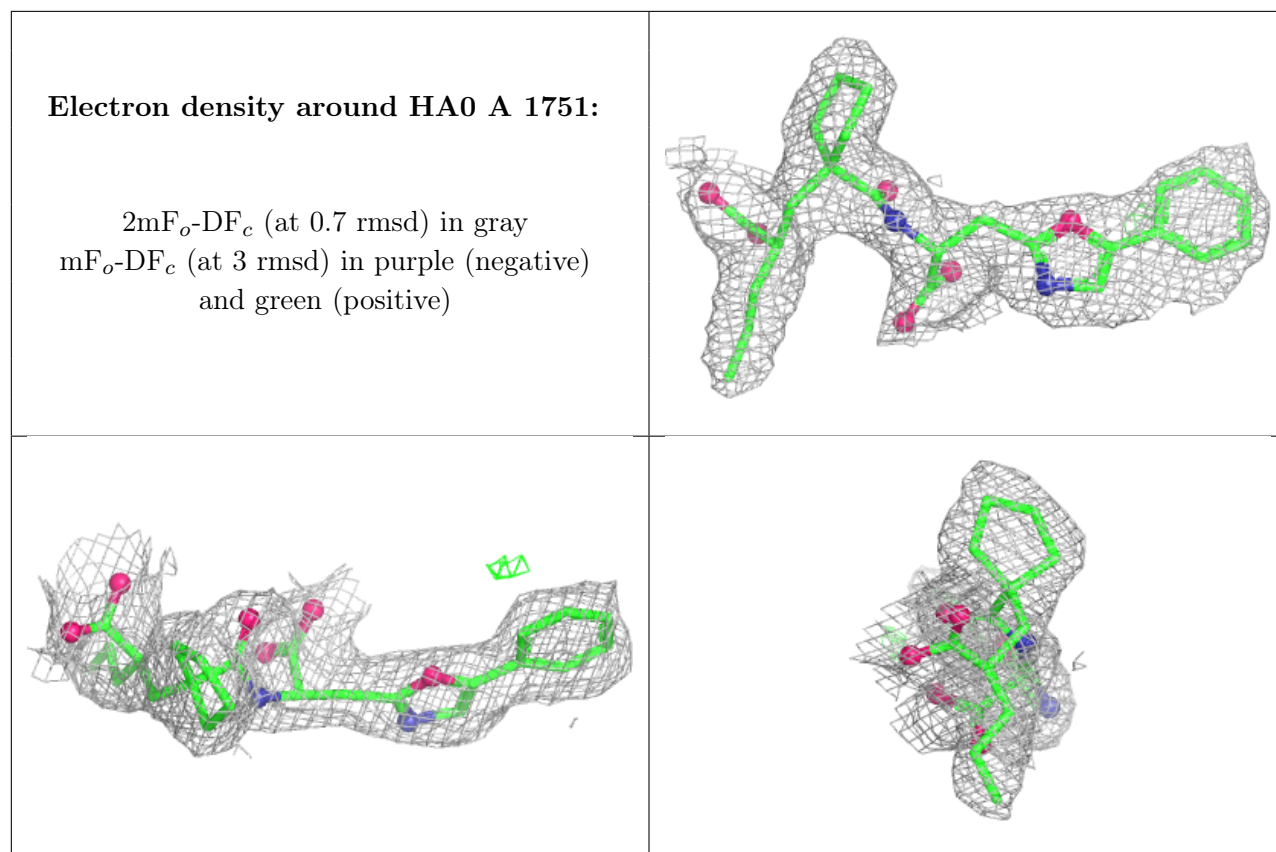
There are no oligosaccharides in this entry.

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	HA0	A	1751	32/32	0.94	0.09	19,35,50,53	0
2	ZN	A	1750	1/1	1.00	0.03	21,21,21,21	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.