



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 08:14 PM UTC

PDB ID : 7XGO / pdb_00007xgo
Title : Human renin in complex with compound2
Authors : Kashima, A.
Deposited on : 2022-04-05
Resolution : 2.10 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
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

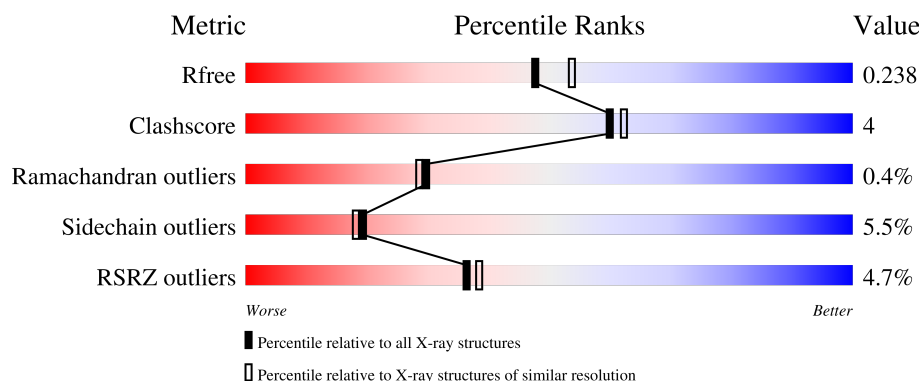
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	340	4% 85% 13% ..
1	B	340	5% 86% 13% .

2 Entry composition [i](#)

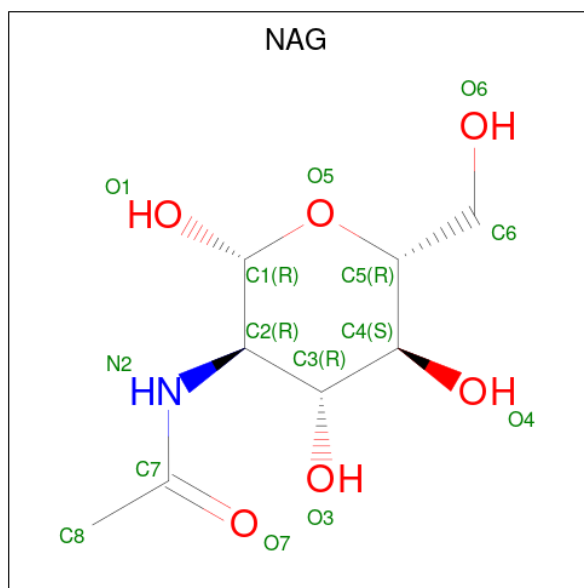
There are 4 unique types of molecules in this entry. The entry contains 5455 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Renin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	337	Total	C	N	O	S	0	0	0
			2598	1660	420	504	14			
1	B	340	Total	C	N	O	S	0	0	0
			2621	1672	424	511	14			

- Molecule 2 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: $C_8H_{15}NO_6$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			14	8	1	5		
2	B	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 3 is UNKNOWN LIGAND (CCD ID: UNL) (formula:) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			30	22	4	4		
3	B	1	Total	C	N	O	0	0
			30	22	4	4		

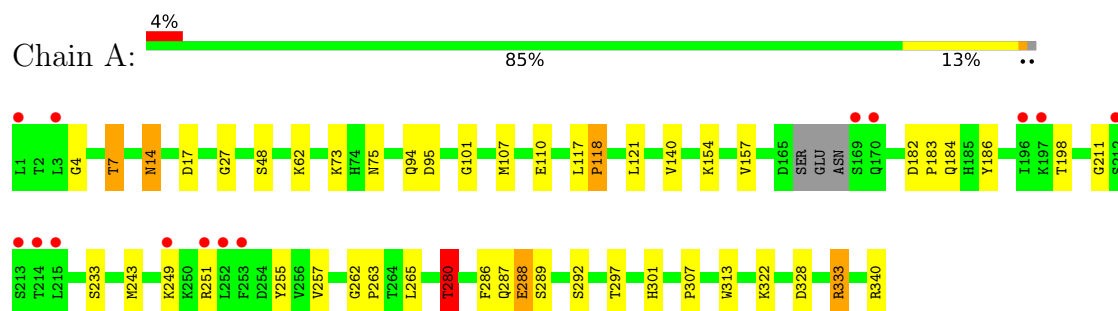
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	86	Total	O	0	0
			86	86		
4	B	62	Total	O	0	0
			62	62		

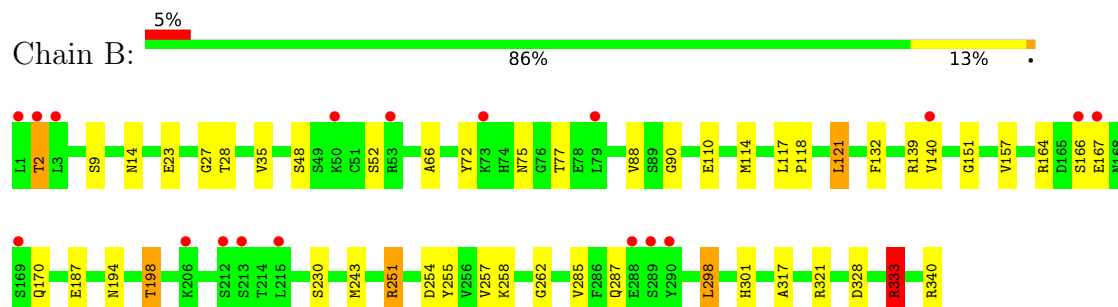
3 Residue-property plots

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: Renin



• Molecule 1: Renin



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 3	Depositor
Cell constants a, b, c, α , β , γ	141.27 Å 141.27 Å 141.27 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.09 – 2.10 47.09 – 2.10	Depositor EDS
% Data completeness (in resolution range)	100.0 (47.09-2.10) 100.0 (47.09-2.10)	Depositor EDS
R_{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.45 (at 2.10 Å)	Xtriage
Refinement program	REFMAC 5.8.0232	Depositor
R, R_{free}	0.193 , 0.230 0.202 , 0.238	Depositor DCC
R_{free} test set	2743 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	38.9	Xtriage
Anisotropy	0.000	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 29.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.025 for l,-k,h	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5455	wwPDB-VP
Average B, all atoms (Å ²)	44.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.37% 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: UNL, NAG

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	1.08	2/2657 (0.1%)	1.34	10/3602 (0.3%)
1	B	1.10	1/2681 (0.0%)	1.34	4/3636 (0.1%)
All	All	1.09	3/5338 (0.1%)	1.34	14/7238 (0.2%)

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	1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	263	PRO	C-O	-5.74	1.16	1.24
1	B	35	VAL	C-O	5.43	1.29	1.24
1	A	286	PHE	C-O	5.01	1.30	1.23

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	333	ARG	CB-CG-CD	6.70	126.70	111.30
1	A	280	THR	N-CA-CB	-6.40	100.22	110.46
1	A	198	THR	CB-CA-C	6.32	120.93	109.62
1	B	75	ASN	N-CA-C	-6.13	99.98	109.24
1	A	182	ASP	CB-CA-C	5.63	116.42	110.17
1	A	297	THR	CA-CB-OG1	-5.47	101.40	109.60
1	B	77	THR	CA-CB-OG1	-5.28	101.68	109.60
1	A	211	GLY	CA-C-N	5.27	127.29	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	211	GLY	C-N-CA	5.27	127.29	120.44
1	B	27	GLY	CA-C-O	-5.23	118.39	122.52
1	A	7	THR	CA-CB-OG1	-5.18	101.83	109.60
1	A	280	THR	CB-CA-C	5.15	118.83	109.83
1	A	4	GLY	CA-C-O	-5.11	116.11	121.53
1	A	307	PRO	CB-CA-C	5.04	117.06	110.92

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	101	GLY	Peptide

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	2598	0	2537	24	0
1	B	2621	0	2555	23	0
2	A	14	0	13	0	0
2	B	14	0	13	0	0
3	A	30	0	0	0	0
3	B	30	0	0	0	0
4	A	86	0	0	0	0
4	B	62	0	0	5	0
All	All	5455	0	5118	45	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 4.

All (45) 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:14:ASN:HD21	1:A:17:ASP:H	1.29	0.80
1:A:280:THR:HG23	4:B:549:HOH:O	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:328:ASP:OD2	1:B:333:ARG:HD2	1.94	0.68
1:A:14:ASN:HD22	1:A:14:ASN:C	2.04	0.65
1:A:288:GLU:O	1:B:167:GLU:HB3	1.97	0.64
1:B:23:GLU:HG3	4:B:510:HOH:O	1.99	0.63
1:A:107:MET:HB3	1:A:140:VAL:CG1	2.31	0.61
1:A:14:ASN:HD21	1:A:17:ASP:N	1.99	0.57
1:A:328:ASP:OD2	1:A:333:ARG:HD2	2.05	0.57
1:A:14:ASN:ND2	1:A:17:ASP:H	2.01	0.56
1:B:164:ARG:HG2	1:B:321:ARG:HD2	1.88	0.56
1:A:280:THR:HG21	4:B:539:HOH:O	2.07	0.55
1:A:121:LEU:HD12	1:A:121:LEU:N	2.22	0.54
1:A:322:LYS:NZ	1:B:23:GLU:OE1	2.30	0.54
1:B:285:VAL:HG22	1:B:298:LEU:HD22	1.90	0.53
1:A:107:MET:HB3	1:A:140:VAL:HG13	1.90	0.53
1:A:14:ASN:C	1:A:14:ASN:ND2	2.68	0.51
1:B:262:GLY:HA3	1:B:287:GLN:OE1	2.10	0.51
1:B:187:GLU:HG3	1:B:340:ARG:HD3	1.93	0.50
1:B:254:ASP:OD1	1:B:301:HIS:CE1	2.64	0.49
1:B:118:PRO:O	1:B:121:LEU:HB2	2.12	0.48
1:B:194:ASN:HD22	1:B:333:ARG:HB3	1.79	0.48
1:B:230:SER:O	1:B:317:ALA:HB3	2.16	0.46
1:B:243:MET:HG3	1:B:255:TYR:CG	2.51	0.46
1:A:262:GLY:HA3	1:A:287:GLN:HE22	1.81	0.45
1:B:132:PHE:CE2	1:B:198:THR:HG22	2.52	0.45
1:A:233:SER:O	1:A:313:TRP:HA	2.18	0.44
1:B:90:GLY:HA3	1:B:110:GLU:O	2.17	0.44
1:A:75:ASN:HB2	1:A:107:MET:HE1	1.99	0.44
1:B:251:ARG:HD2	4:B:558:HOH:O	2.18	0.44
1:B:117:LEU:HA	1:B:118:PRO:HA	1.75	0.43
1:B:243:MET:HG3	1:B:255:TYR:CD1	2.54	0.43
1:A:48:SER:HB2	1:A:110:GLU:HB3	2.01	0.43
1:A:183:PRO:HA	1:A:186:TYR:CE2	2.54	0.43
1:B:140:VAL:HG23	4:B:507:HOH:O	2.18	0.43
1:B:2:THR:O	1:B:151:GLY:HA2	2.18	0.43
1:B:48:SER:HB2	1:B:110:GLU:HB3	2.02	0.42
1:A:27:GLY:HA2	1:A:95:ASP:OD1	2.20	0.42
1:A:121:LEU:N	1:A:121:LEU:CD1	2.83	0.41
1:B:66:ALA:HB1	1:B:72:TYR:CD1	2.56	0.41
1:A:27:GLY:HA2	1:A:95:ASP:CG	2.46	0.41
1:A:243:MET:HG3	1:A:255:TYR:CD2	2.55	0.41
1:B:14:ASN:OD1	1:B:14:ASN:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:LYS:HB2	1:A:94:GLN:HB3	2.02	0.40
1:A:117:LEU:HA	1:A:118:PRO:HA	1.80	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	333/340 (98%)	327 (98%)	5 (2%)	1 (0%)	36	36
1	B	338/340 (99%)	331 (98%)	5 (2%)	2 (1%)	21	18
All	All	671/680 (99%)	658 (98%)	10 (2%)	3 (0%)	30	28

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	251	ARG
1	B	139	ARG
1	A	289	SER

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	287/290 (99%)	270 (94%)	17 (6%)	18	16

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	290/290 (100%)	275 (95%)	15 (5%)	21	20
All	All	577/580 (100%)	545 (94%)	32 (6%)	19	18

All (32) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	THR
1	A	14	ASN
1	A	62	LYS
1	A	118	PRO
1	A	154	LYS
1	A	157	VAL
1	A	184	GLN
1	A	249	LYS
1	A	251	ARG
1	A	257	VAL
1	A	265	LEU
1	A	280	THR
1	A	288	GLU
1	A	292	SER
1	A	301	HIS
1	A	333	ARG
1	A	340	ARG
1	B	2	THR
1	B	9	SER
1	B	28	THR
1	B	52	SER
1	B	88	VAL
1	B	114	MET
1	B	121	LEU
1	B	157	VAL
1	B	166	SER
1	B	170	GLN
1	B	198	THR
1	B	257	VAL
1	B	258	LYS
1	B	298	LEU
1	B	333	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	14	ASN
1	A	170	GLN
1	A	175	GLN
1	A	189	ASN
1	A	202	GLN
1	A	287	GLN
1	B	94	GLN
1	B	168	ASN
1	B	185	HIS
1	B	194	ASN
1	B	301	HIS

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 4 ligands modelled in this entry, 2 are unknown - 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	NAG	B	401	1	14,14,15	1.23	2 (14%)	17,19,21	2.03	5 (29%)
2	NAG	A	401	1	14,14,15	1.01	0	17,19,21	2.56	8 (47%)

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	NAG	B	401	1	-	2/6/23/26	0/1/1/1
2	NAG	A	401	1	-	0/6/23/26	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	401	NAG	C2-N2	2.73	1.50	1.46
2	B	401	NAG	C1-C2	2.68	1.56	1.52

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	401	NAG	O7-C7-N2	4.43	129.81	121.98
2	A	401	NAG	C2-N2-C7	4.35	128.73	122.90
2	B	401	NAG	O7-C7-C8	-4.10	114.75	122.05
2	B	401	NAG	C2-N2-C7	4.03	128.31	122.90
2	A	401	NAG	C1-O5-C5	3.97	117.51	112.19
2	A	401	NAG	O4-C4-C3	3.76	119.24	110.38
2	B	401	NAG	C1-O5-C5	3.38	116.72	112.19
2	A	401	NAG	O5-C5-C6	2.88	113.26	107.66
2	A	401	NAG	C8-C7-N2	-2.82	111.44	116.12
2	A	401	NAG	O3-C3-C2	-2.79	103.61	109.40
2	B	401	NAG	O4-C4-C3	2.65	116.63	110.38
2	A	401	NAG	O3-C3-C4	2.48	116.23	110.38
2	B	401	NAG	O7-C7-N2	2.19	125.85	121.98

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	401	NAG	O5-C5-C6-O6
2	B	401	NAG	C4-C5-C6-O6

There are no ring outliers.

No monomer is involved in short contacts.

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	337/340 (99%)	0.20	14 (4%)	40 42	26, 39, 68, 92	0
1	B	340/340 (100%)	0.40	18 (5%)	32 34	29, 45, 65, 102	0
All	All	677/680 (99%)	0.30	32 (4%)	36 38	26, 42, 68, 102	0

All (32) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	253	PHE	5.2
1	B	167	GLU	3.8
1	B	169	SER	3.7
1	A	214	THR	3.6
1	A	252	LEU	3.5
1	B	1	LEU	3.5
1	B	215	LEU	3.5
1	A	215	LEU	3.3
1	B	290	TYR	3.2
1	B	2	THR	3.2
1	B	79	LEU	3.0
1	B	206	LYS	3.0
1	A	213	SER	2.8
1	B	288	GLU	2.7
1	B	289	SER	2.7
1	B	212	SER	2.6
1	A	196	ILE	2.5
1	A	169	SER	2.5
1	A	170	GLN	2.4
1	A	197	LYS	2.4
1	A	212	SER	2.4
1	B	73	LYS	2.3
1	A	249	LYS	2.3
1	A	251	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	3	LEU	2.2
1	B	166	SER	2.2
1	B	50	LYS	2.2
1	A	1	LEU	2.2
1	B	140	VAL	2.1
1	B	53	ARG	2.1
1	B	213	SER	2.1
1	B	3	LEU	2.1

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](#)

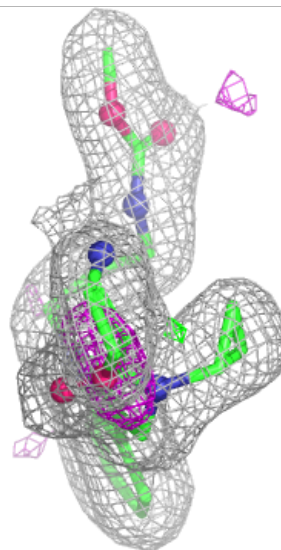
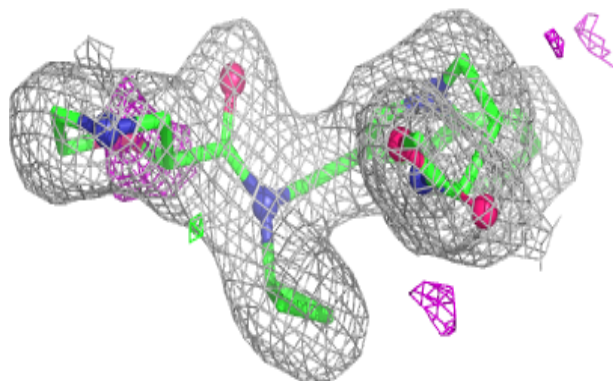
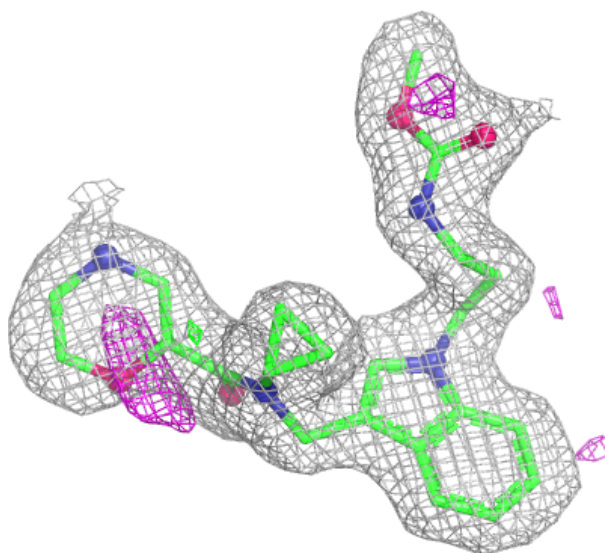
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	NAG	B	401	14/15	0.73	0.16	72,78,87,88	0
2	NAG	A	401	14/15	0.88	0.11	41,47,63,65	0
3	UNL	A	402	30/-	0.95	0.08	25,31,45,53	0
3	UNL	B	402	30/-	0.95	0.09	33,37,49,56	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.

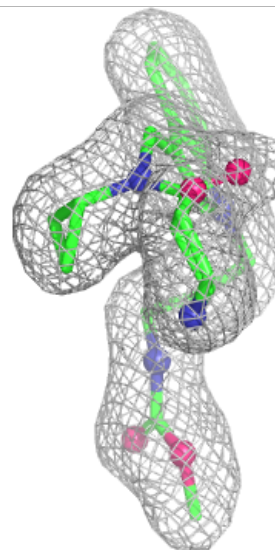
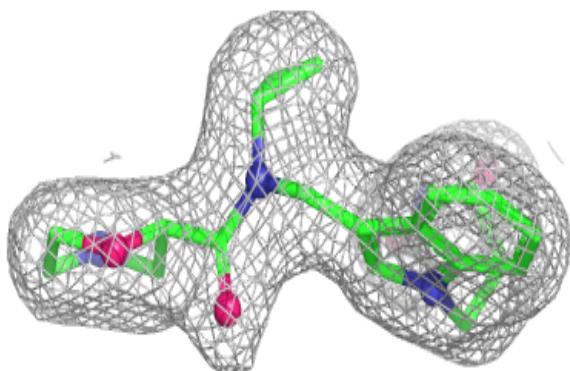
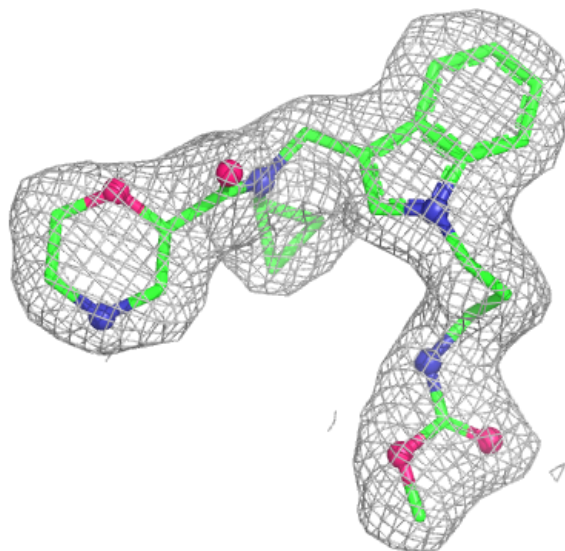
Electron density around UNL A 402:

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



Electron density around UNL B 402:

$2mF_o-DF_c$ (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.