



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 01:52 PM UTC

PDB ID : 9EN2 / pdb_00009en2
Title : Crystal structure of the metalloproteinase enhancer PCPE-1 complexed with nanobodies VHH-H4 and VHH-I5
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Deposited on : 2024-03-12
Resolution : 2.20 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

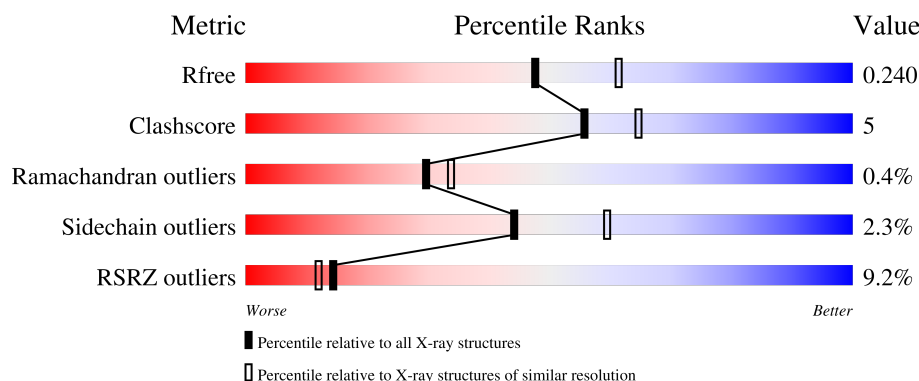
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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	6164 (2.20-2.20)
Clashscore	190562	6851 (2.20-2.20)
Ramachandran outliers	187476	6768 (2.20-2.20)
Sidechain outliers	187428	6769 (2.20-2.20)
RSRZ outliers	180081	6166 (2.20-2.20)

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	302	
2	B	154	
3	C	144	

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 4036 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 Procollagen C-endopeptidase enhancer 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	241	Total	C	N	O	S	0	2	0
			1842	1166	310	357	9			

There are 50 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-21	MET	-	initiating methionine	UNP Q15113
A	-20	GLY	-	expression tag	UNP Q15113
A	-19	ILE	-	expression tag	UNP Q15113
A	-18	LEU	-	expression tag	UNP Q15113
A	-17	PRO	-	expression tag	UNP Q15113
A	-16	SER	-	expression tag	UNP Q15113
A	-15	PRO	-	expression tag	UNP Q15113
A	-14	GLY	-	expression tag	UNP Q15113
A	-13	MET	-	expression tag	UNP Q15113
A	-12	PRO	-	expression tag	UNP Q15113
A	-11	ALA	-	expression tag	UNP Q15113
A	-10	LEU	-	expression tag	UNP Q15113
A	-9	LEU	-	expression tag	UNP Q15113
A	-8	SER	-	expression tag	UNP Q15113
A	-7	LEU	-	expression tag	UNP Q15113
A	-6	VAL	-	expression tag	UNP Q15113
A	-5	SER	-	expression tag	UNP Q15113
A	-4	LEU	-	expression tag	UNP Q15113
A	-3	LEU	-	expression tag	UNP Q15113
A	-2	SER	-	expression tag	UNP Q15113
A	-1	VAL	-	expression tag	UNP Q15113
A	0	LEU	-	expression tag	UNP Q15113
A	1	LEU	-	expression tag	UNP Q15113
A	2	MET	-	expression tag	UNP Q15113
A	3	GLY	-	expression tag	UNP Q15113
A	4	CYS	-	expression tag	UNP Q15113
A	5	VAL	-	expression tag	UNP Q15113

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Chain	Residue	Modelled	Actual	Comment	Reference
A	6	ALA	-	expression tag	UNP Q15113
A	7	GLU	-	expression tag	UNP Q15113
A	8	THR	-	expression tag	UNP Q15113
A	9	GLY	-	expression tag	UNP Q15113
A	10	HIS	-	expression tag	UNP Q15113
A	11	HIS	-	expression tag	UNP Q15113
A	12	HIS	-	expression tag	UNP Q15113
A	13	HIS	-	expression tag	UNP Q15113
A	14	HIS	-	expression tag	UNP Q15113
A	15	HIS	-	expression tag	UNP Q15113
A	16	LEU	-	expression tag	UNP Q15113
A	17	GLU	-	expression tag	UNP Q15113
A	18	VAL	-	expression tag	UNP Q15113
A	19	LEU	-	expression tag	UNP Q15113
A	20	PHE	-	expression tag	UNP Q15113
A	21	GLN	-	expression tag	UNP Q15113
A	22	GLY	-	expression tag	UNP Q15113
A	23	PRO	-	expression tag	UNP Q15113
A	24	ALA	-	expression tag	UNP Q15113
A	31	ALA	THR	conflict	UNP Q15113
A	278	LEU	-	expression tag	UNP Q15113
A	279	GLY	-	expression tag	UNP Q15113
A	280	THR	-	expression tag	UNP Q15113

- Molecule 2 is a protein called VHH-H4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	121	Total	C	N	O	S	0	0	0
			927	574	160	188	5			

- Molecule 3 is a protein called VHH-I5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	116	Total	C	N	O	S	0	1	0
			888	552	155	177	4			

- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	2	Total	Ca	0	0
			2	2		

- Molecule 5 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	B	1	Total	C	O	0	0
			6	3	3		
5	C	1	Total	C	O	0	0
			6	3	3		

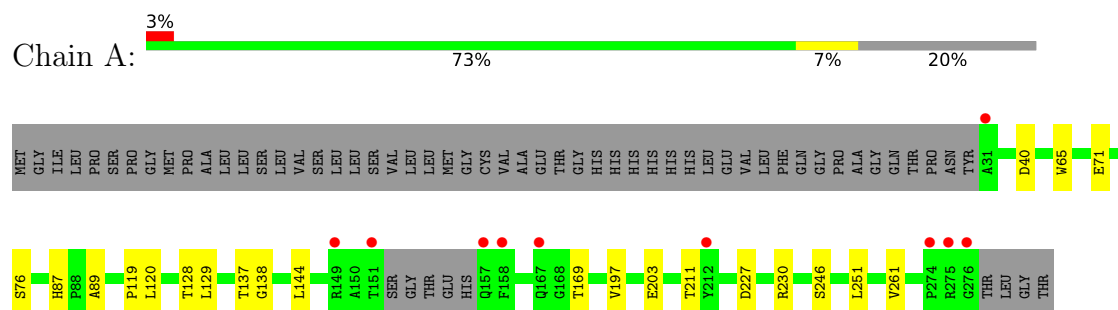
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	210	Total	O	0	0
			210	210		
6	B	56	Total	O	0	0
			56	56		
6	C	99	Total	O	0	0
			99	99		

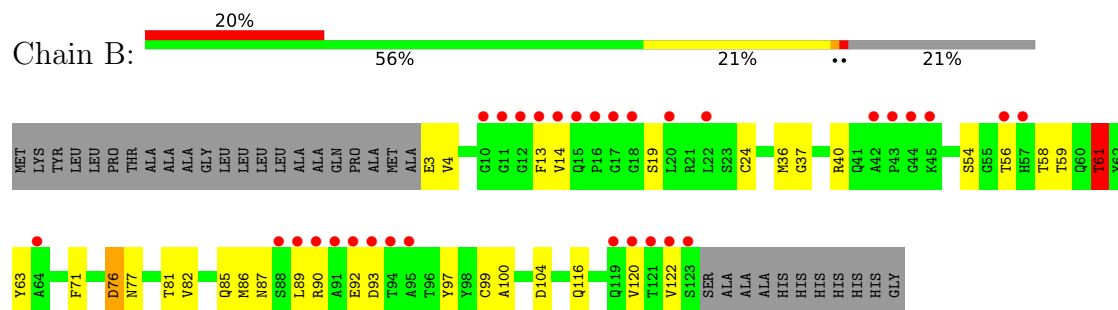
3 Residue-property plots [i](#)

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.

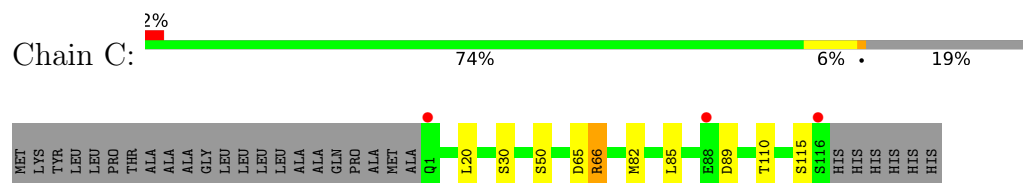
- Molecule 1: Procollagen C-endopeptidase enhancer 1



- Molecule 2: VHH-H4



- Molecule 3: VHH-I5



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	54.83Å 95.94Å 110.77Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.00 – 2.20 49.00 – 2.20	Depositor EDS
% Data completeness (in resolution range)	99.8 (49.00-2.20) 99.2 (49.00-2.20)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.68 (at 2.20Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
R, R_{free}	0.208 , 0.242 0.212 , 0.240	Depositor DCC
R_{free} test set	1513 reflections (4.98%)	wwPDB-VP
Wilson B-factor (Å ²)	41.4	Xtriage
Anisotropy	0.367	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 29.7	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	0.95	EDS
Total number of atoms	4036	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 4.76% 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: CA, GOL

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	1.15	2/1897 (0.1%)	1.41	4/2581 (0.2%)
2	B	1.22	1/946 (0.1%)	1.47	3/1280 (0.2%)
3	C	1.15	1/908 (0.1%)	1.40	3/1232 (0.2%)
All	All	1.17	4/3751 (0.1%)	1.42	10/5093 (0.2%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	138	GLY	C-O	-7.61	1.18	1.24
1	A	230	ARG	C-O	-6.36	1.15	1.24
2	B	116	GLN	C-O	5.66	1.31	1.24
3	C	50	SER	C-O	5.05	1.30	1.23

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	169	THR	CA-CB-OG1	-9.00	96.09	109.60
2	B	76	ASP	CA-CB-CG	6.28	118.88	112.60
2	B	61	THR	CB-CA-C	6.05	121.24	109.33
1	A	211	THR	CA-CB-OG1	-5.84	100.85	109.60
1	A	227	ASP	CA-C-N	5.73	128.75	120.38
1	A	227	ASP	C-N-CA	5.73	128.75	120.38
3	C	66	ARG	NE-CZ-NH1	-5.46	116.04	121.50
2	B	104	ASP	CA-CB-CG	5.41	118.01	112.60
3	C	30	SER	N-CA-C	-5.41	105.38	111.28
3	C	110	THR	CA-CB-OG1	-5.00	102.09	109.60

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	1842	0	1754	9	0
2	B	927	0	867	19	0
3	C	888	0	866	7	0
4	A	2	0	0	0	0
5	B	6	0	8	0	0
5	C	6	0	8	0	0
6	A	210	0	0	1	0
6	B	56	0	0	1	0
6	C	99	0	0	1	0
All	All	4036	0	3503	34	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 (34) 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:40[B]:ASP:OD1	6:A:401:HOH:O	2.05	0.75
3:C:66:ARG:NH1	3:C:89:ASP:OD2	2.20	0.74
2:B:40:ARG:NH1	2:B:93:ASP:HA	2.13	0.63
1:A:87:HIS:HD2	1:A:89:ALA:H	1.45	0.63
2:B:90:ARG:O	2:B:122:VAL:HG11	2.02	0.60
2:B:61:THR:HG23	2:B:63:TYR:HE1	1.67	0.60
2:B:61:THR:HG23	2:B:63:TYR:CE1	2.37	0.59
2:B:24:CYS:HB3	2:B:82:VAL:HG12	1.83	0.58
3:C:66:ARG:HH12	3:C:89:ASP:CG	2.10	0.57
1:A:87:HIS:CD2	1:A:89:ALA:H	2.22	0.57
1:A:119:PRO:HG3	2:B:3:GLU:HG3	1.87	0.57
3:C:20:LEU:HG	3:C:82:MET:HE2	1.88	0.56
2:B:3:GLU:HG2	2:B:4:VAL:H	1.70	0.55
1:A:144:LEU:HD12	1:A:144:LEU:C	2.33	0.54
3:C:65:ASP:OD1	3:C:66:ARG:HG3	2.12	0.49
2:B:85:GLN:HE21	2:B:87:ASN:ND2	2.12	0.48
2:B:54:SER:O	2:B:59:THR:HA	2.15	0.47
2:B:85:GLN:HE21	2:B:87:ASN:HD21	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:36:MET:HA	2:B:100:ALA:O	2.15	0.46
1:A:65:TRP:O	1:A:128:THR:HA	2.16	0.46
1:A:129:LEU:HD11	1:A:144:LEU:HD21	1.97	0.45
2:B:71:PHE:CE2	2:B:86:MET:HE3	2.52	0.45
2:B:14:VAL:HG21	2:B:89:LEU:HD13	1.98	0.44
1:A:246:SER:HB3	1:A:251:LEU:HD13	2.00	0.44
2:B:40:ARG:HH12	2:B:93:ASP:HA	1.82	0.43
3:C:82:MET:HB3	3:C:85:LEU:HD21	2.01	0.43
2:B:37:GLY:O	2:B:99:CYS:HA	2.20	0.42
2:B:97:TYR:CE1	2:B:120:VAL:HB	2.55	0.42
2:B:24:CYS:O	2:B:81:THR:HA	2.20	0.41
2:B:13:PHE:O	6:B:301:HOH:O	2.21	0.41
2:B:76:ASP:O	2:B:77:ASN:C	2.64	0.41
3:C:115:SER:HA	6:C:319:HOH:O	2.20	0.40
3:C:66:ARG:HH11	3:C:66:ARG:HD2	1.53	0.40
1:A:120:LEU:HD23	1:A:120:LEU:HA	1.96	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	239/302 (79%)	229 (96%)	8 (3%)	2 (1%)	16	16
2	B	119/154 (77%)	115 (97%)	4 (3%)	0	100	100
3	C	115/144 (80%)	111 (96%)	4 (4%)	0	100	100
All	All	473/600 (79%)	455 (96%)	16 (3%)	2 (0%)	30	34

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	261	VAL

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Mol	Chain	Res	Type
1	A	137	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	200/248 (81%)	196 (98%)	4 (2%)	48	64
2	B	98/119 (82%)	93 (95%)	5 (5%)	21	27
3	C	99/118 (84%)	99 (100%)	0	100	100
All	All	397/485 (82%)	388 (98%)	9 (2%)	44	59

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	71	GLU
1	A	76	SER
1	A	197	VAL
1	A	203	GLU
2	B	19	SER
2	B	56	THR
2	B	58	THR
2	B	61	THR
2	B	92	GLU

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	60	ASN
1	A	87	HIS
1	A	126	GLN
2	B	85	GLN
3	C	13	GLN
3	C	96	ASN
3	C	103	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 4 ligands modelled in this entry, 2 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
5	GOL	C	201	-	5,5,5	0.22	0	5,5,5	0.41	0
5	GOL	B	201	-	5,5,5	0.23	0	5,5,5	0.51	0

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
5	GOL	C	201	-	-	2/4/4/4	-
5	GOL	B	201	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	C	201	GOL	C1-C2-C3-O3
5	C	201	GOL	O2-C2-C3-O3
5	B	201	GOL	C1-C2-C3-O3
5	B	201	GOL	O2-C2-C3-O3

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	241/302 (79%)	-0.02	10 (4%) 41 38	24, 36, 63, 101	2 (0%)
2	B	121/154 (78%)	1.12	31 (25%) 1 1	28, 50, 87, 109	0
3	C	116/144 (80%)	0.13	3 (2%) 57 54	23, 37, 59, 80	1 (0%)
All	All	478/600 (79%)	0.30	44 (9%) 14 12	23, 38, 78, 109	3 (0%)

All (44) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	151	THR	5.6
2	B	13	PHE	5.3
1	A	31	ALA	5.2
2	B	18	GLY	4.3
2	B	14	VAL	4.1
2	B	91	ALA	4.0
2	B	122	VAL	4.0
2	B	121	THR	3.7
2	B	17	GLY	3.6
2	B	123	SER	3.5
1	A	274	PRO	3.4
1	A	276	GLY	3.3
2	B	43	PRO	3.2
2	B	56	THR	3.2
2	B	11	GLY	3.2
1	A	275	ARG	3.1
2	B	10	GLY	3.1
2	B	16	PRO	3.1
3	C	116	SER	3.1
2	B	119	GLN	3.0
2	B	57	HIS	3.0
2	B	92	GLU	2.9
2	B	42	ALA	2.9

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Mol	Chain	Res	Type	RSRZ
2	B	45	LYS	2.8
1	A	157	GLN	2.7
2	B	44	GLY	2.6
2	B	88	SER	2.6
2	B	15	GLN	2.6
2	B	90	ARG	2.5
2	B	94	THR	2.5
2	B	20	LEU	2.5
2	B	93	ASP	2.4
3	C	1	GLN	2.4
1	A	158	PHE	2.4
1	A	212	TYR	2.2
2	B	120	VAL	2.2
1	A	149	ARG	2.1
2	B	22	LEU	2.1
1	A	167	GLN	2.1
2	B	95	ALA	2.1
2	B	64	ALA	2.1
2	B	89	LEU	2.1
2	B	12	GLY	2.1
3	C	88	GLU	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 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
5	GOL	B	201	6/6	0.86	0.14	37,49,58,65	0
5	GOL	C	201	6/6	0.90	0.13	31,39,42,44	0

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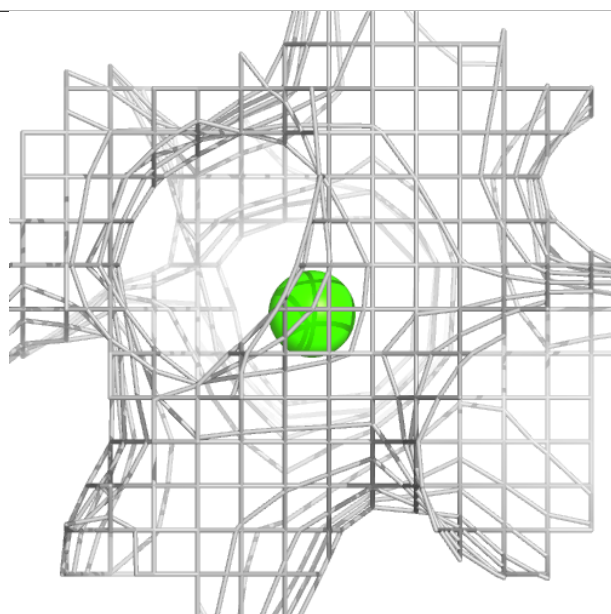
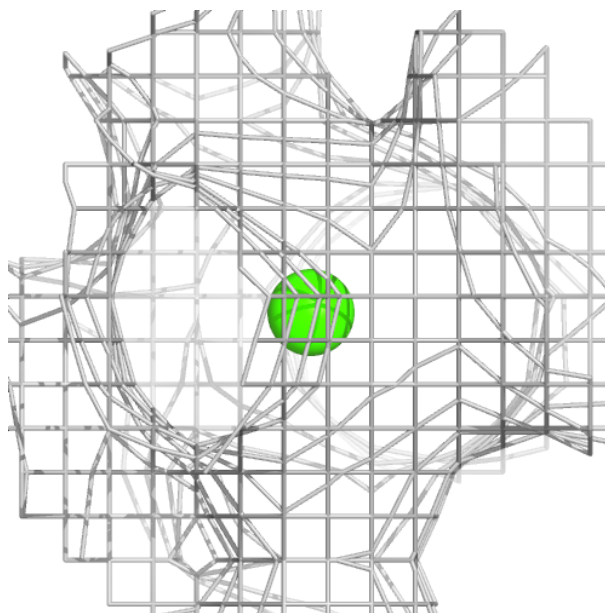
Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	CA	A	301	1/1	0.99	0.04	33,33,33,33	0
4	CA	A	302	1/1	0.99	0.03	30,30,30,30	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.

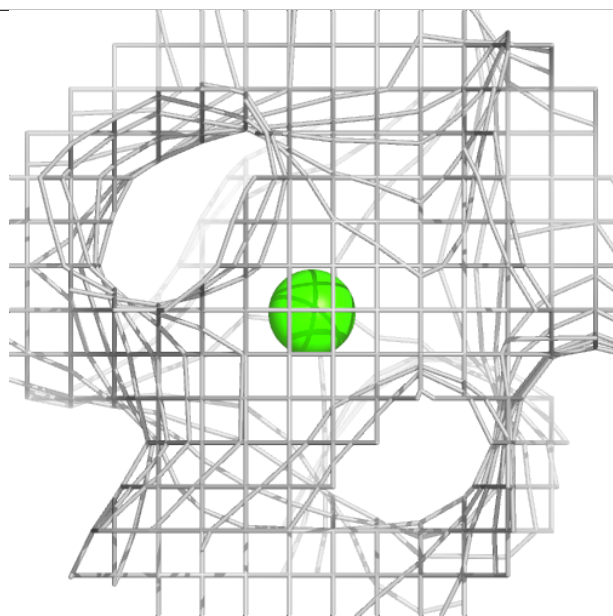
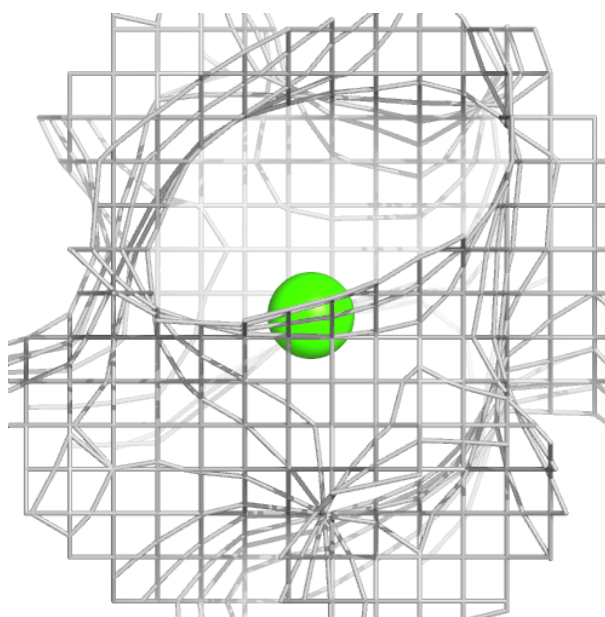
Electron density around CA A 301:

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 CA A 302:

$2mF_o-DF_c$ (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.