



# Full wwPDB X-ray Structure Validation Report ⓘ

Aug 22, 2020 – 12:26 PM BST

PDB ID : 5VAO  
Title : Crystal structure of eVP30 C-terminus and eNP peptide  
Authors : XU, W.; Leung, D.W.; Amarasinghe, G.K.  
Deposited on : 2017-03-27  
Resolution : 2.56 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](mailto: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.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.13.1  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.13.1

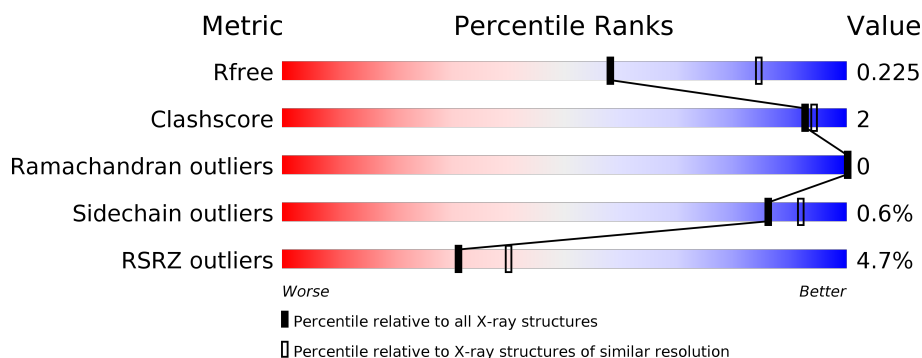
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 2.56 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))
$R_{free}$	130704	1279 (2.58-2.54)
Clashscore	141614	1327 (2.58-2.54)
Ramachandran outliers	138981	1312 (2.58-2.54)
Sidechain outliers	138945	1312 (2.58-2.54)
RSRZ outliers	127900	1269 (2.58-2.54)

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 on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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	129	<div> <div>5%</div> <div>98%</div> <div>..</div> </div>
1	B	129	<div> <div>100%</div> </div>
1	C	129	<div> <div>5%</div> <div>95%</div> <div>5%</div> </div>
1	D	129	<div> <div>97%</div> <div>.</div> </div>
2	E	11	<div> <div>100%</div> </div>
2	F	11	<div> <div>27%</div> <div>100%</div> </div>

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Mol	Chain	Length	Quality of chain
2	G	11	
2	H	11	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	PEG	D	308	-	-	X	-

## 2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 4609 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 Minor nucleoprotein VP30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	127	Total	C	N	O	S	0	1	0
			1021	649	183	184	5			
1	B	129	Total	C	N	O	S	0	1	0
			1034	656	186	187	5			
1	C	129	Total	C	N	O	S	0	0	0
			1023	650	182	186	5			
1	D	129	Total	C	N	O	S	0	0	0
			1023	650	182	186	5			

- Molecule 2 is a protein called NP.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	E	11	Total	C	N	O	0	0	0
			82	55	14	13			
2	F	11	Total	C	N	O	0	0	0
			82	55	14	13			
2	G	11	Total	C	N	O	0	0	0
			82	55	14	13			
2	H	11	Total	C	N	O	0	0	0
			82	55	14	13			

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).



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

- Molecule 4 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	3	Total	Cl	0	0
			3	3		
4	D	4	Total	Cl	0	0
			4	4		
4	C	1	Total	Cl	0	0
			1	1		

- Molecule 5 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: C<sub>4</sub>H<sub>10</sub>O<sub>3</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	B	1	Total	C	O	0	0
			7	4	3		
5	C	1	Total	C	O	0	0
			7	4	3		
5	D	1	Total	C	O	0	0
			7	4	3		
5	D	1	Total	C	O	0	0
			7	4	3		
5	E	1	Total	C	O	0	0
			7	4	3		

- Molecule 6 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	D	1	Total	Ca	0	0
			1	1		

- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	10	Total	O	0	0
			10	10		
7	B	38	Total	O	0	0
			38	38		
7	C	21	Total	O	0	0
			21	21		

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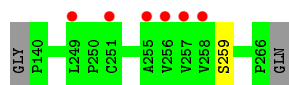
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	D	30	Total 30	O 30	0	0
7	E	8	Total 8	O 8	0	0
7	F	3	Total 3	O 3	0	0
7	G	2	Total 2	O 2	0	0

### 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: Minor nucleoprotein VP30



- Molecule 1: Minor nucleoprotein VP30



There are no outlier residues recorded for this chain.

- Molecule 1: Minor nucleoprotein VP30



- Molecule 1: Minor nucleoprotein VP30



- Molecule 2: NP



There are no outlier residues recorded for this chain.

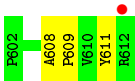
- Molecule 2: NP



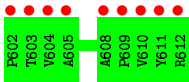
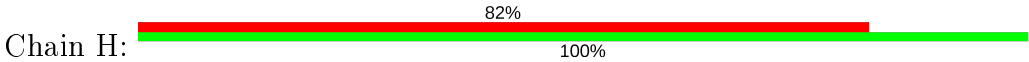




● Molecule 2: NP



● Molecule 2: NP



## 4 Data and refinement statistics

Property	Value	Source
Space group	I 41 2 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	139.48 Å   139.48 Å   161.47 Å 90.00°   90.00°   90.00°	Depositor
Resolution (Å)	105.55 – 2.56 44.68 – 2.56	Depositor EDS
% Data completeness (in resolution range)	86.2 (105.55-2.56) 86.2 (44.68-2.56)	Depositor EDS
$R_{merge}$	0.11	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.51 (at 2.54 Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
R, $R_{free}$	0.183   ,   0.225 0.186   ,   0.225	Depositor DCC
$R_{free}$ test set	1144 reflections (5.10%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	37.7	Xtriage
Anisotropy	0.083	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.35 , 47.9	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	4609	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	45.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.58% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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 [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, CA, PEG, CL

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	0.41	0/1038	0.64	0/1403
1	B	0.45	0/1051	0.63	0/1421
1	C	0.39	0/1040	0.64	0/1407
1	D	0.45	0/1040	0.67	0/1407
2	E	0.45	0/86	0.65	0/120
2	F	0.46	0/86	0.61	0/120
2	G	0.48	0/86	0.61	0/120
2	H	0.37	0/86	0.62	0/120
All	All	0.43	0/4513	0.64	0/6118

There are no bond length outliers.

There are no bond angle outliers.

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	1021	0	1059	0	0
1	B	1034	0	1069	0	0
1	C	1023	0	1057	9	0
1	D	1023	0	1057	6	0
2	E	82	0	85	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	F	82	0	85	0	0
2	G	82	0	85	3	0
2	H	82	0	85	0	0
3	B	12	0	16	0	0
3	C	6	0	8	0	0
3	D	6	0	8	0	0
4	B	3	0	0	0	0
4	C	1	0	0	0	0
4	D	4	0	0	0	0
5	B	7	0	10	0	0
5	C	7	0	10	0	0
5	D	14	0	20	4	0
5	E	7	0	10	0	0
6	D	1	0	0	0	0
7	A	10	0	0	0	0
7	B	38	0	0	0	0
7	C	21	0	0	0	0
7	D	30	0	0	0	0
7	E	8	0	0	0	0
7	F	3	0	0	0	0
7	G	2	0	0	0	0
All	All	4609	0	4664	14	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 2.

All (14) 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:C:148:ILE:HD12	1:D:148:ILE:HD12	1.73	0.71
1:C:154:TRP:CE3	1:C:159:ILE:HD11	2.33	0.64
1:C:154:TRP:CZ3	1:C:159:ILE:HD11	2.36	0.61
1:C:148:ILE:HD11	1:D:144:LEU:HB3	1.89	0.55
1:C:144:LEU:HB3	1:D:148:ILE:HD11	1.90	0.53
5:D:308:PEG:H21	2:G:609:PRO:HD2	1.93	0.51
5:D:308:PEG:H11	2:G:611:TYR:OH	2.14	0.47
1:C:159:ILE:CG2	1:C:159:ILE:O	2.64	0.45
1:D:144:LEU:H	1:D:144:LEU:HD22	1.83	0.43
5:D:308:PEG:H32	2:G:608:ALA:HB1	2.00	0.43
1:D:238:PHE:HB2	5:D:308:PEG:H22	2.02	0.42
1:C:148:ILE:HD11	1:D:144:LEU:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:162:ILE:HG13	1:C:163:GLU:N	2.36	0.41
1:C:159:ILE:HA	1:C:159:ILE:HD13	1.82	0.41

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	126/129 (98%)	125 (99%)	1 (1%)	0	100	100
1	B	128/129 (99%)	127 (99%)	1 (1%)	0	100	100
1	C	127/129 (98%)	126 (99%)	1 (1%)	0	100	100
1	D	127/129 (98%)	126 (99%)	1 (1%)	0	100	100
2	E	9/11 (82%)	9 (100%)	0	0	100	100
2	F	9/11 (82%)	8 (89%)	1 (11%)	0	100	100
2	G	9/11 (82%)	9 (100%)	0	0	100	100
2	H	9/11 (82%)	9 (100%)	0	0	100	100
All	All	544/560 (97%)	539 (99%)	5 (1%)	0	100	100

There are no Ramachandran outliers to report.

### 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	113/113 (100%)	112 (99%)	1 (1%)	78	87
1	B	114/113 (101%)	114 (100%)	0	100	100
1	C	113/113 (100%)	112 (99%)	1 (1%)	78	87
1	D	113/113 (100%)	112 (99%)	1 (1%)	78	87
2	E	9/9 (100%)	9 (100%)	0	100	100
2	F	9/9 (100%)	9 (100%)	0	100	100
2	G	9/9 (100%)	9 (100%)	0	100	100
2	H	9/9 (100%)	9 (100%)	0	100	100
All	All	489/488 (100%)	486 (99%)	3 (1%)	86	92

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	259	SER
1	C	177	MET
1	D	248	GLN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

### 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 monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 18 ligands modelled in this entry, 9 are monoatomic - leaving 9 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	GOL	B	302	-	5,5,5	0.44	0	5,5,5	0.33	0
3	GOL	B	301	-	5,5,5	0.39	0	5,5,5	0.31	0
3	GOL	D	301	-	5,5,5	0.46	0	5,5,5	0.43	0
3	GOL	C	301	-	5,5,5	0.33	0	5,5,5	0.15	0
5	PEG	D	307	-	6,6,6	0.48	0	5,5,5	0.31	0
5	PEG	E	701	-	6,6,6	0.47	0	5,5,5	0.21	0
5	PEG	D	308	-	6,6,6	0.49	0	5,5,5	0.42	0
5	PEG	B	306	-	6,6,6	0.51	0	5,5,5	0.15	0
5	PEG	C	303	-	6,6,6	0.50	0	5,5,5	0.24	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
3	GOL	B	302	-	-	2/4/4/4	-
3	GOL	B	301	-	-	2/4/4/4	-
3	GOL	D	301	-	-	4/4/4/4	-
3	GOL	C	301	-	-	2/4/4/4	-
5	PEG	D	307	-	-	1/4/4/4	-
5	PEG	E	701	-	-	2/4/4/4	-
5	PEG	D	308	-	-	2/4/4/4	-
5	PEG	B	306	-	-	1/4/4/4	-
5	PEG	C	303	-	-	1/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (17) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	302	GOL	C1-C2-C3-O3
3	B	301	GOL	C1-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
3	D	301	GOL	C1-C2-C3-O3
3	B	301	GOL	O2-C2-C3-O3
5	D	307	PEG	O1-C1-C2-O2
5	E	701	PEG	O1-C1-C2-O2
5	B	306	PEG	O2-C3-C4-O4
3	C	301	GOL	O1-C1-C2-C3
3	B	302	GOL	O2-C2-C3-O3
3	C	301	GOL	O1-C1-C2-O2
5	E	701	PEG	O2-C3-C4-O4
5	D	308	PEG	O2-C3-C4-O4
5	C	303	PEG	O1-C1-C2-O2
3	D	301	GOL	O1-C1-C2-O2
3	D	301	GOL	O2-C2-C3-O3
3	D	301	GOL	O1-C1-C2-C3
5	D	308	PEG	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	D	308	PEG	4	0

## 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	127/129 (98%)	0.15	6 (4%) 31 40	30, 50, 89, 118	0
1	B	129/129 (100%)	-0.35	0 100 100	19, 28, 49, 87	0
1	C	129/129 (100%)	0.15	7 (5%) 25 32	22, 49, 81, 95	1 (0%)
1	D	129/129 (100%)	-0.28	0 100 100	20, 35, 61, 103	1 (0%)
2	E	11/11 (100%)	-0.38	0 100 100	23, 25, 41, 55	0
2	F	11/11 (100%)	0.83	3 (27%) 0 0	54, 71, 125, 141	0
2	G	11/11 (100%)	0.56	1 (9%) 9 12	33, 42, 78, 89	1 (9%)
2	H	11/11 (100%)	3.30	9 (81%) 0 0	63, 82, 103, 113	0
All	All	558/560 (99%)	0.01	26 (4%) 31 40	19, 41, 82, 141	3 (0%)

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	G	612	ARG	6.0
2	H	612	ARG	5.6
1	A	256	VAL	5.4
2	H	604	VAL	5.1
2	H	610	VAL	4.3
2	H	602	PRO	4.2
2	H	611	TYR	4.0
1	C	267	GLN	3.6
2	H	609	PRO	3.3
2	F	603	THR	3.3
2	F	604	VAL	2.8
1	C	244	ASN	2.8
1	C	159	ILE	2.7
2	F	602	PRO	2.7
1	A	251	CYS	2.7
1	A	257	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
2	H	603	THR	2.4
1	A	258	VAL	2.4
1	C	203	GLN	2.4
1	A	255	ALA	2.2
1	C	230	TRP	2.2
1	C	199	LEU	2.2
1	C	195	ARG	2.1
2	H	605	ALA	2.1
2	H	608	ALA	2.1
1	A	249	LEU	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 monosaccharides 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
4	CL	B	304	1/1	0.72	0.13	68,68,68,68	0
5	PEG	B	306	7/7	0.78	0.29	52,73,104,107	0
5	PEG	D	307	7/7	0.80	0.28	61,67,75,77	0
3	GOL	D	301	6/6	0.83	0.35	56,71,92,106	0
3	GOL	B	302	6/6	0.84	0.21	39,66,70,73	0
4	CL	D	304	1/1	0.85	0.12	71,71,71,71	0
5	PEG	C	303	7/7	0.85	0.27	31,60,84,101	0
3	GOL	C	301	6/6	0.87	0.20	47,57,64,68	0
5	PEG	E	701	7/7	0.87	0.20	63,73,85,86	0
5	PEG	D	308	7/7	0.89	0.41	45,59,69,76	0
3	GOL	B	301	6/6	0.90	0.25	54,69,72,84	0
4	CL	C	302	1/1	0.91	0.13	82,82,82,82	0
4	CL	D	306	1/1	0.93	0.06	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
4	CL	D	305	1/1	0.94	0.14	87,87,87,87	0
4	CL	B	305	1/1	0.94	0.08	73,73,73,73	0
4	CL	D	303	1/1	0.95	0.15	64,64,64,64	0
4	CL	B	303	1/1	0.97	0.09	45,45,45,45	0
6	CA	D	302	1/1	0.99	0.07	39,39,39,39	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.