

## wwPDB X-ray Structure Validation Summary Report (i)

#### Feb 21, 2022 – 07:59 pm GMT

PDB ID	:	7BKU
Title	:	Endothiapepsin structure obtained at 100K with fragment JFD03909 bound
Authors	:	Engilberge, S.; Huang, CY.; Smith, K.M.L.; Eris, D.; Marsh, M.; Wang, M.;
		Wojdyla, J.A.
Deposited on	:	2021-01-17
Resolution	:	1.40 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

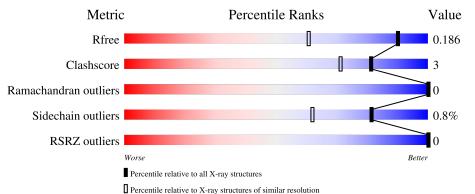
MolProbity		4 021 467
5		
Mogul	:	1.8.4, CSD as $541be(2020)$
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.26
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0267
CCP4	:	7.1.010 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.26

## 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:  $X\text{-}RAY \, DIFFRACTION$ 

The reported resolution of this entry is 1.40 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
$R_{free}$	130704	1714 (1.40-1.40)
Clashscore	141614	1812 (1.40-1.40)
Ramachandran outliers	138981	1763 (1.40-1.40)
Sidechain outliers	138945	1762 (1.40-1.40)
RSRZ outliers	127900	1674 (1.40-1.40)

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 <=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	А	330	97% •



 $\mathbf{2}$ 

# Entry composition (i)

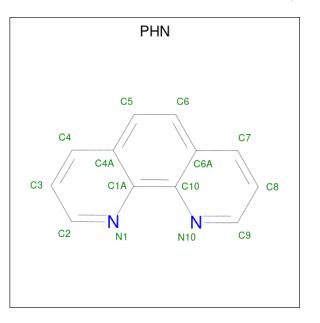
There are 4 unique types of molecules in this entry. The entry contains 3083 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Endothiapepsin.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	А	330	Total 2442	C 1547	N 371	O 522	${ m S} { m 2}$	0	12	0

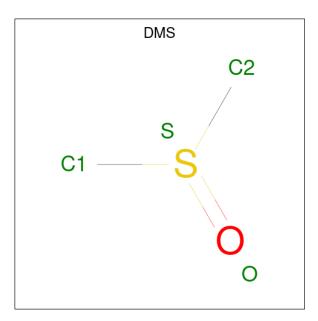
• Molecule 2 is 1,10-PHENANTHROLINE (three-letter code: PHN) (formula:  $C_{12}H_8N_2$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	А	1	Total 14	C 12	N 2	0	0

• Molecule 3 is DIMETHYL SULFOXIDE (three-letter code: DMS) (formula:  $C_2H_6OS$ ).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0
3	А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{S} \\ 4 & 2 & 1 & 1 \end{array}$	0	0

• Molecule 4 is water.

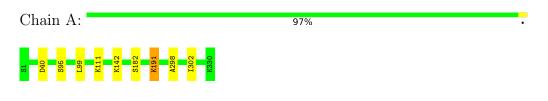
-	Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
	4	А	519	Total O 527 527	0	8



## 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: Endothiapepsin





## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	45.29Å 73.33Å 52.76Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $109.69^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	49.67 - 1.40	Depositor
Resolution (A)	49.67 - 1.40	EDS
% Data completeness	94.4 (49.67-1.40)	Depositor
(in resolution range)	$94.4 \ (49.67 - 1.40)$	EDS
R <sub>merge</sub>	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.77 (at 1.41 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.17.1_3660	Depositor
D D.	0.152 , $0.180$	Depositor
$R, R_{free}$	0.162 , $0.186$	DCC
$R_{free}$ test set	2985 reflections $(4.99%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	14.7	Xtriage
Anisotropy	0.083	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	(Not available), (Not available)	EDS
L-test for twinning <sup>2</sup>	$   <  L  > = 0.51, < L^2 > = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	3083	wwPDB-VP
Average B, all atoms $(Å^2)$	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.49% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;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.



<sup>&</sup>lt;sup>1</sup>Intensities estimated from amplitudes.

## 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: DMS, PHN

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).

Mal	Chain	Bond	lengths	Bond angles		
	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.40	0/2516	0.63	0/3441	

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	А	2442	0	2330	7	0
2	А	14	0	8	0	0
3	А	100	0	150	6	0
4	А	527	0	0	12	4
All	All	3083	0	2488	13	4

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 3.

The worst 5 of 13 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:191:LYS:HD2	4:A:579:HOH:O	1.63	0.99
3:A:415:DMS:O	4:A:501:HOH:O	1.86	0.93
3:A:426:DMS:H21	4:A:638:HOH:O	1.86	0.75
1:A:111:LYS:NZ	4:A:504:HOH:O	2.29	0.66
1:A:298[A]:ALA:O	4:A:502:HOH:O	2.16	0.61

All (4) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:602:HOH:O	4:A:781:HOH:O[2_545]	1.94	0.26
4:A:907:HOH:O	4:A:923:HOH:O[2_545]	1.96	0.24
4:A:503:HOH:O	4:A:849:HOH:O[1_655]	2.05	0.15
4:A:729:HOH:O	4:A:841:HOH:O[2_555]	2.11	0.09

#### 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	А	340/330~(103%)	335~(98%)	5 (2%)	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	А	271/263~(103%)	269~(99%)	2(1%)	84 66	

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	40	ASP
1	А	191	LYS

Sometimes 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)

26 ligands are 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).

Mal	Mol Type Chain Re		Res	les Link	Bo	Bond lengths			Bond angles		
	туре	Chain	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z  > 2	
3	DMS	А	420	-	3,3,3	0.64	0	$3,\!3,\!3$	0.77	0	
3	DMS	А	417	-	3,3,3	0.66	0	$3,\!3,\!3$	0.39	0	
3	DMS	А	411	-	3,3,3	0.65	0	3,3,3	0.57	0	
3	DMS	А	407	-	3,3,3	0.59	0	3,3,3	0.43	0	



Mol	Turne	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
10101	Type	Chain	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z  > 2
3	DMS	А	421	-	3,3,3	0.57	0	3,3,3	0.48	0
3	DMS	А	423	-	3,3,3	0.65	0	3,3,3	0.57	0
3	DMS	А	408	-	3,3,3	0.67	0	3,3,3	0.32	0
3	DMS	А	414	-	3,3,3	0.60	0	3,3,3	0.33	0
3	DMS	А	425	-	3, 3, 3	0.57	0	3, 3, 3	0.27	0
3	DMS	А	426	-	3,3,3	0.20	0	3,3,3	0.10	0
3	DMS	А	409	-	3,3,3	0.65	0	3,3,3	0.35	0
3	DMS	А	402	-	3,3,3	0.66	0	3, 3, 3	0.88	0
3	DMS	А	405	-	3,3,3	0.64	0	3,3,3	0.31	0
3	DMS	А	406	-	3,3,3	0.64	0	3,3,3	0.51	0
3	DMS	А	413	-	3, 3, 3	0.62	0	$3,\!3,\!3$	0.52	0
3	DMS	А	410	-	3,3,3	0.64	0	3,3,3	0.51	0
2	PHN	А	401	-	16, 16, 16	1.24	2 (12%)	$22,\!22,\!22$	1.11	1 (4%)
3	DMS	А	403	-	3,3,3	0.63	0	3,3,3	0.38	0
3	DMS	А	422	-	3,3,3	0.70	0	3,3,3	0.41	0
3	DMS	А	418	-	3,3,3	0.62	0	3,3,3	0.84	0
3	DMS	А	424	-	3,3,3	0.69	0	3,3,3	0.42	0
3	DMS	А	415	-	3,3,3	0.56	0	3,3,3	0.41	0
3	DMS	А	419	-	3,3,3	0.70	0	3,3,3	0.53	0
3	DMS	А	416	-	3,3,3	0.68	0	3,3,3	0.23	0
3	DMS	А	412	-	3,3,3	0.65	0	3,3,3	0.58	0
3	DMS	А	404	-	$3,\!3,\!3$	0.58	0	$3,\!3,\!3$	0.77	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
2	PHN	А	401	-	-	-	0/3/3/3

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	$\mathrm{Ideal}(\mathrm{\AA})$
2	А	401	PHN	C4A-C1A	-2.36	1.36	1.41
2	А	401	PHN	C6A-C10	-2.16	1.37	1.41

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^{o})$	$Ideal(^{o})$
2	А	401	PHN	C8-C9-N10	-2.06	120.79	123.94



There are no chirality outliers.

There are no torsion outliers.

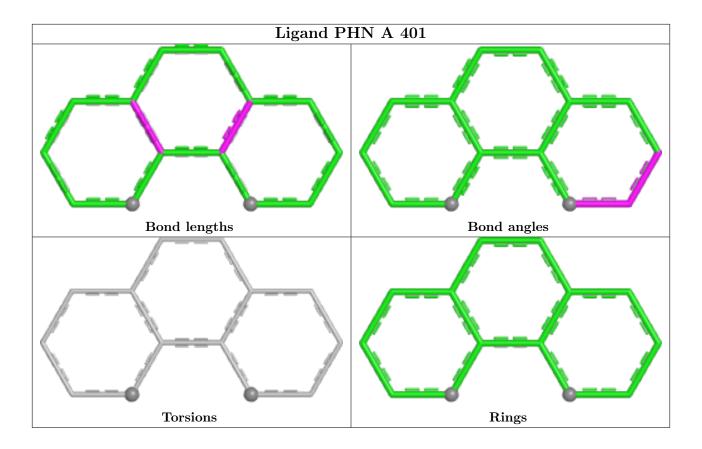
There are no ring outliers.

5 monomers are involved in 6 short contacts:

Mol	Chain	$\operatorname{Res}$	Type	Clashes	Symm-Clashes
3	А	407	DMS	1	0
3	А	425	DMS	1	0
3	А	426	DMS	2	0
3	А	415	DMS	1	0
3	А	404	DMS	1	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 then 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 sufficient 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,  $95^{th}$  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	А	330/330~(100%)	-0.45	0 100 100	11, 14, 24, 35	0

There are no RSRZ outliers to report.

#### 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,  $95^{th}$  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	DMS	А	406	4/4	0.83	0.26	$35,\!50,\!64,\!69$	0
3	DMS	А	408	4/4	0.83	0.17	$37,\!44,\!55,\!57$	0
3	DMS	А	423	4/4	0.83	0.20	40,41,44,66	0
3	DMS	А	402	4/4	0.85	0.15	$25,\!31,\!36,\!44$	0
3	DMS	А	425	4/4	0.86	0.16	$23,\!24,\!35,\!37$	0
3	DMS	А	409	4/4	0.88	0.26	$43,\!46,\!53,\!67$	0
3	DMS	А	421	4/4	0.89	0.28	26,48,63,63	0
3	DMS	А	403	4/4	0.89	0.15	35,41,50,58	0
3	DMS	А	419	4/4	0.89	0.19	45,50,54,60	0

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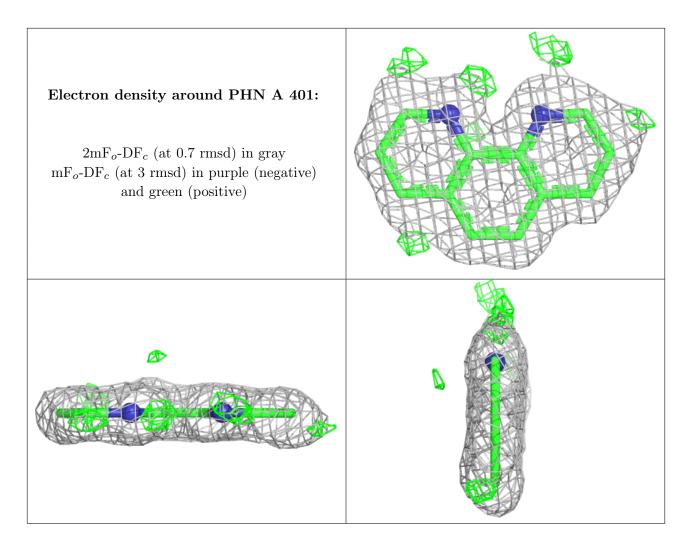


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(A^2)$	Q<0.9
3	DMS	А	417	4/4	0.91	0.20	54,58,80,84	0
3	DMS	А	413	4/4	0.92	0.14	$26,\!29,\!55,\!59$	0
3	DMS	А	418	4/4	0.92	0.13	26,39,40,53	0
3	DMS	А	410	4/4	0.93	0.23	37,52,54,64	0
3	DMS	А	412	4/4	0.93	0.11	30,38,49,50	0
3	DMS	А	420	4/4	0.93	0.09	19,24,29,34	0
3	DMS	А	411	4/4	0.94	0.15	22,50,51,53	0
3	DMS	А	415	4/4	0.94	0.21	24,47,49,56	0
3	DMS	А	404	4/4	0.94	0.18	27,33,45,50	0
2	PHN	А	401	14/14	0.95	0.09	14,18,24,29	0
3	DMS	А	416	4/4	0.95	0.17	35,37,39,41	0
3	DMS	А	407	4/4	0.95	0.13	31,32,41,53	0
3	DMS	А	414	4/4	0.96	0.14	30,36,38,41	0
3	DMS	А	424	4/4	0.96	0.10	21,25,27,31	0
3	DMS	А	422	4/4	0.96	0.19	27,27,28,33	0
3	DMS	А	426	4/4	0.96	0.11	18,25,31,50	4
3	DMS	А	405	4/4	0.97	0.08	22,32,35,45	0

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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.

