

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

#### Mar 28, 2022 – 01:09 pm BST

PDB ID	:	7PYT
Title	:	Benzoylsuccinyl-CoA thiolase with coenzyme A
Authors	:	Ermler, U.; Heider, J.; Weidenweber, S.; Demmer, U.
Deposited on		
Resolution	:	1.70 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:

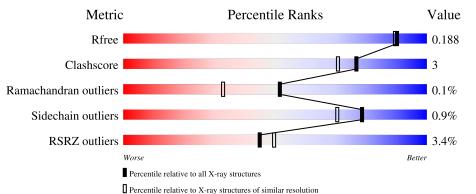
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as $541$ be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.27
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0267
CCP4	:	7.1.010 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.27

# 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 1.70 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$		
$R_{free}$	130704	4298 (1.70-1.70)		
Clashscore	141614	4695 (1.70-1.70)		
Ramachandran outliers	138981	4610 (1.70-1.70)		
Sidechain outliers	138945	4610 (1.70-1.70)		
RSRZ outliers	127900	4222 (1.70-1.70)		

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	146	86% 69	% 8%
1	С	146	9%	9%
2	В	392	% 94%	6%
2	D	392	% 94%	6% •

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 crite-
ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	PE8	А	202	-	-	Х	-
7	COA	D	401	Х	-	-	-



# 2 Entry composition (i)

There are 10 unique types of molecules in this entry. The entry contains 8859 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 Benzoylsuccinyl-CoA thiolase subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Λ	134	Total	С	Ν	0	S	0	1	0
1		104	1099	707	175	209	8	0		
1	1 C	133	Total	С	Ν	Ο	S	0	9	0
		100	1102	709	178	206	9	0	2	

• Molecule 2 is a protein called Benzoylsuccinyl-CoA thiolase subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	В	392	Total	С	Ν	0	S	0	12	0
	Z D	392	2960	1839	521	566	34	0		
0	П	392	Total	С	Ν	0	S	0	2	0
	2 D	392	2917	1812	516	557	32	0	5	

There are 4 discrepancies between the modelled and reference sequences:

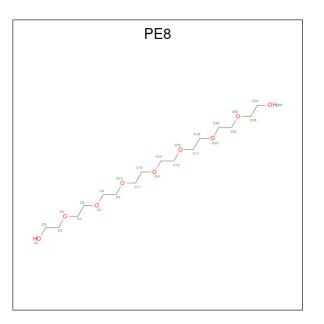
Chain	Residue	Modelled	Actual	Comment	Reference
В	391	GLY	-	expression tag	UNP Q39VG1
В	392	SER	-	expression tag	UNP Q39VG1
D	391	GLY	-	expression tag	UNP Q39VG1
D	392	SER	-	expression tag	UNP Q39VG1

• Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total Zn 1 1	0	0
3	С	1	Total Zn 1 1	0	0

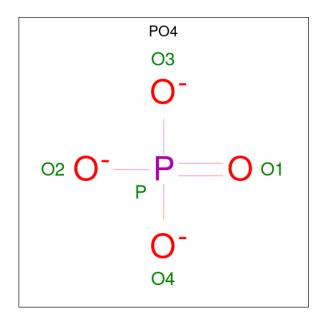
• Molecule 4 is 3,6,9,12,15,18,21-HEPTAOXATRICOSANE-1,23-DIOL (three-letter code: PE8) (formula:  $C_{16}H_{34}O_9$ ).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total         C         O           22         14         8	0	0
4	В	1	Total         C         O           22         14         8	0	1
4	С	1	Total         C         O           25         16         9	0	0
4	D	1	Total         C         O           22         14         8	0	0

• Molecule 5 is PHOSPHATE ION (three-letter code: PO4) (formula:  $O_4P$ ).



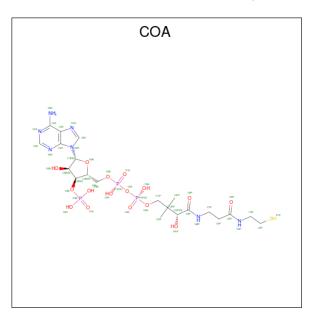


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	В	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{P} \\ 5 & 4 & 1 \end{array}$	0	0
5	В	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{P} \\ 5 & 4 & 1 \end{array}$	0	0

• Molecule 6 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	В	1	Total Mg 1 1	0	0

• Molecule 7 is COENZYME A (three-letter code: COA) (formula: C<sub>21</sub>H<sub>36</sub>N<sub>7</sub>O<sub>16</sub>P<sub>3</sub>S) (labeled as "Ligand of Interest" by depositor).



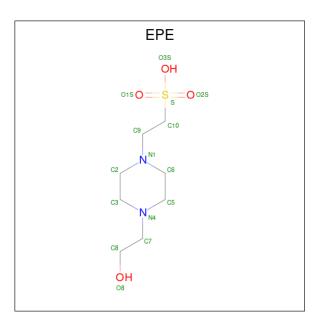
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
7	D	1	Total 48	C 21	N 7	O 16	Р 3	S 1	0	0

• Molecule 8 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	D	1	Total Cl 1 1	0	0

• Molecule 9 is 4-(2-HYDROXYETHYL)-1-PIPERAZINE ETHANESULFONIC ACID (three-letter code: EPE) (formula:  $C_8H_{18}N_2O_4S$ ).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
0	Л	1	Total	С	Ν	0	S	0	0
9			15	8	2	4	1		

• Molecule 10 is water.

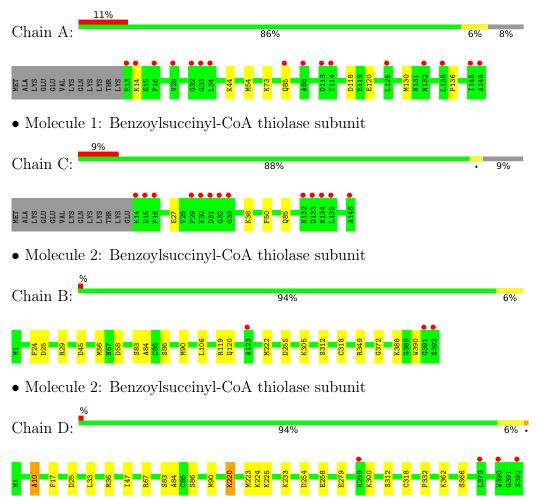
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
10	А	79	Total O 79 79	0	0
10	В	226	Total         O           226         226	0	0
10	С	88	Total O 89 89	0	1
10	D	217	Total O 219 219	0	2



# 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: Benzoyl succinyl-CoA thiolase subunit





# 4 Data and refinement statistics (i)

Property	Value	Source	
Space group	P 43 21 2	Depositor	
Cell constants	117.34Å 117.34Å 228.00Å	Depositor	
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $90.00^{\circ}$	Depositor	
Resolution (Å)	47.67 - 1.70	Depositor	
Resolution (A)	47.67 - 1.70	EDS	
% Data completeness	99.9 (47.67-1.70)	Depositor	
(in resolution range)	99.9 (47.67 - 1.70)	EDS	
R <sub>merge</sub>	0.06	Depositor	
R <sub>sym</sub>	(Not available)	Depositor	
$< I/\sigma(I) > 1$	$1.18 (at 1.70 \text{\AA})$	Xtriage	
Refinement program	PHENIX 1.14_3260	Depositor	
D D.	0.158 , $0.181$	Depositor	
$R, R_{free}$	0.170 , $0.188$	DCC	
$R_{free}$ test set	8656 reflections $(4.97%)$	wwPDB-VP	
Wilson B-factor $(Å^2)$	31.0	Xtriage	
Anisotropy	0.013	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  > = 0.49, < L^2 > = 0.33$	Xtriage	
Estimated twinning fraction	No twinning to report.	Xtriage	
$F_o, F_c$ correlation	0.97	EDS	
Total number of atoms	8859	wwPDB-VP	
Average B, all atoms $(Å^2)$	40.0	wwPDB-VP	

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.36% 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: PE8, COA, PO4, EPE, MG, CL, 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	В	ond angles
	Unam	RMSZ	# Z  > 5	RMSZ	# Z  > 5
1	А	0.60	0/1126	0.70	0/1521
1	С	0.60	0/1129	0.78	0/1523
2	В	0.62	0/3013	0.82	9/4062~(0.2%)
2	D	0.63	0/2970	0.80	4/4006~(0.1%)
All	All	0.62	0/8238	0.79	13/11112~(0.1%)

There are no bond length outliers.

The worst 5 of 13 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
2	В	45[A]	ASP	CB-CG-OD1	7.90	125.41	118.30
2	В	45[A]	ASP	CB-CG-OD2	-7.74	111.33	118.30
2	D	84	ALA	CB-CA-C	7.54	121.42	110.10
2	В	25	ASP	CB-CG-OD1	7.40	124.96	118.30
2	D	10	ALA	CB-CA-C	7.16	120.84	110.10

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	1099	0	1069	15	0
1	С	1102	0	1077	4	0

Continued on next page...



Mol	Chain	<b>Non-H</b>		H(added)	Clashes	Symm-Clashes
2	В	2960	0	2938	6	0
2	D	2917	0	2893	16	0
3	А	1	0	0	0	0
3	С	1	0	0	0	0
4	А	22	0	29	15	0
4	В	22	0	29	1	0
4	С	25	0	34	3	0
4	D	22	0	29	5	0
5	В	10	0	0	0	0
6	В	1	0	0	0	0
7	D	48	0	32	0	0
8	D	1	0	0	0	0
9	D	15	0	17	1	0
10	А	79	0	0	1	0
10	В	226	0	0	1	0
10	С	89	0	0	1	0
10	D	219	0	0	4	0
All	All	8859	0	8147	49	0

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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 49 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)
2:D:220:LYS:HE3	2:D:224:LYS:HE2	1.68	0.73
1:A:73:LYS:NZ	4:A:202:PE8:H141	2.05	0.72
4:A:202:PE8:H212	4:A:202:PE8:H22	1.73	0.70
4:C:202:PE8:H202	10:C:377:HOH:O	1.97	0.64
4:B:404[A]:PE8:H51	10:B:666:HOH:O	1.96	0.64

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.



Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	entiles
1	А	133/146~(91%)	132~(99%)	1 (1%)	0	100	100
1	С	133/146~(91%)	128 (96%)	5(4%)	0	100	100
2	В	398/392~(102%)	388~(98%)	9~(2%)	1 (0%)	41	24
2	D	393/392~(100%)	385~(98%)	8 (2%)	0	100	100
All	All	1057/1076~(98%)	1033~(98%)	23~(2%)	1 (0%)	51	33

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	В	372	GLY

#### 5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain 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	122/132~(92%)	122~(100%)	0	100 100
1	С	122/132~(92%)	122 (100%)	0	100 100
2	В	310/302~(103%)	306~(99%)	4 (1%)	69 56
2	D	304/302~(101%)	300~(99%)	4 (1%)	69 56
All	All	858/868~(99%)	850~(99%)	8 (1%)	78 70

5 of 8 residues with a non-rotameric side chain are listed below:

Mol	Chain	Res	Type
2	D	362	LYS
2	D	225	LYS
2	D	86	SER
2	В	305	LYS
2	D	220	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such



sidechains are listed below:

Mol	Chain	Res	Type
2	D	120	GLN
2	D	281	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 monosaccharides in this entry.

### 5.6 Ligand geometry (i)

Of 12 ligands modelled in this entry, 4 are monoatomic - leaving 8 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	B	ond leng	gths	Bond angles		
	Type	Unam	nes		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2
4	PE8	D	403	-	21,21,24	0.54	0	20,20,23	0.31	0
4	PE8	В	404[A]	-	21,21,24	0.56	0	20,20,23	0.37	0
4	PE8	С	202	-	24,24,24	0.59	0	23,23,23	1.23	2 (8%)
5	PO4	В	402	-	4,4,4	0.83	0	$6,\!6,\!6$	0.66	0
5	PO4	В	401	-	4,4,4	0.75	0	$6,\!6,\!6$	0.80	0
4	PE8	А	202	-	21,21,24	0.54	0	20,20,23	0.42	0
9	EPE	D	404	-	$15,\!15,\!15$	2.20	3 (20%)	18,20,20	3.23	7 (38%)
7	COA	D	401	-	41,50,50	3.23	19 (46%)	52,75,75	1.41	7 (13%)

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
4	PE8	D	403	-	-	12/19/19/22	-
4	PE8	В	404[A]	-	-	8/19/19/22	-
4	PE8	С	202	-	-	14/22/22/22	-
4	PE8	А	202	-	-	12/19/19/22	-
9	EPE	D	404	-	-	4/9/19/19	0/1/1/1
7	COA	D	401	-	1/1/11/13	3/44/64/64	0/3/3/3

The worst 5 of 22 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	Ideal(Å)
7	D	401	COA	C2B-C3B	-11.57	1.27	1.52
7	D	401	COA	O4B-C1B	-8.75	1.28	1.41
9	D	404	EPE	C10-S	-7.11	1.67	1.77
7	D	401	COA	C2B-C1B	6.01	1.62	1.53
7	D	401	COA	O9P-C9P	-4.30	1.14	1.23

The worst 5 of 16 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\mathbf{Observed}(^{o})$	$\operatorname{Ideal}(^{o})$
9	D	404	EPE	O2S-S-C10	8.72	117.42	106.92
9	D	404	EPE	O3S-S-C10	5.90	115.31	105.77
9	D	404	EPE	C7-N4-C5	-5.80	96.40	111.23
7	D	401	COA	C3B-C2B-C1B	4.35	109.52	99.89
4	С	202	PE8	O1-C2-C3	4.06	135.35	111.81

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
7	D	401	COA	C2B

5 of 53 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	D	401	COA	C3B-O3B-P3B-O7A
9	D	404	EPE	C10-C9-N1-C6
9	D	404	EPE	C8-C7-N4-C3
4	А	202	PE8	C2-C3-O4-C5
4	В	404[A]	PE8	O13-C14-C15-O16

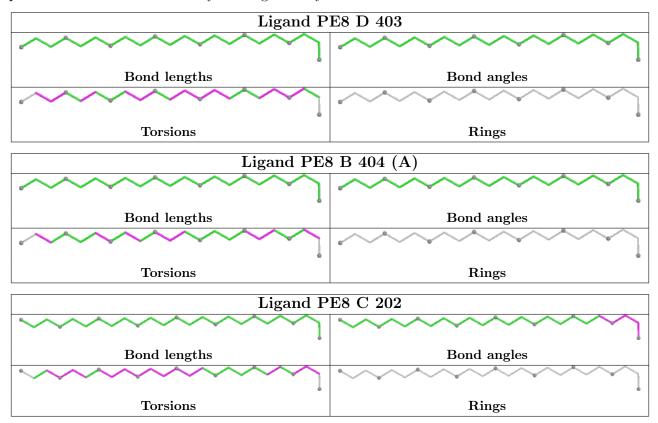


There are no ring outliers.

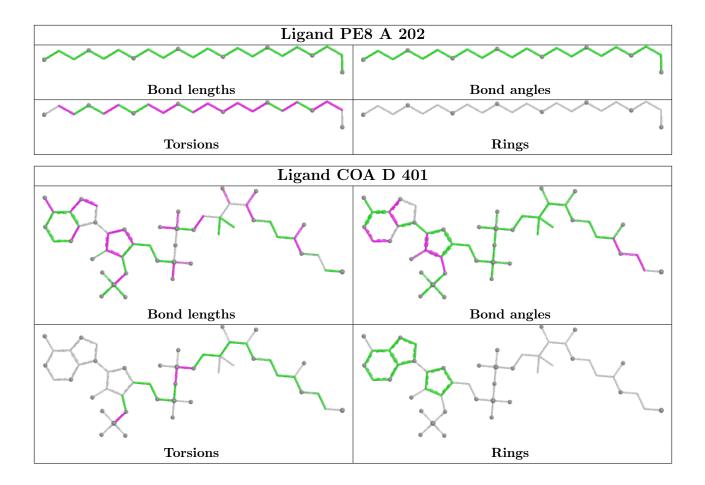
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	D	403	PE8	5	0
4	В	404[A]	PE8	1	0
4	С	202	PE8	3	0
4	А	202	PE8	15	0
9	D	404	EPE	1	0

5 monomers are involved in 25 short contacts:

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 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 (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	$\langle RSRZ \rangle$	# RSRZ > 2	$OWAB(Å^2)$	Q < 0.9
1	А	134/146~(91%)	0.35	16 (11%) 4 5	33, 45, 71, 107	0
1	С	133/146 (91%)	0.29	13 (9%) 7 8	29, 41, 82, 115	0
2	В	392/392~(100%)	-0.36	3 (0%) 86 88	24, 32, 56, 112	0
2	D	392/392~(100%)	-0.09	4 (1%) 82 85	25, 34, 57, 109	0
All	All	1051/1076~(97%)	-0.09	36 (3%) 45 50	24, 36, 65, 115	0

The worst 5 of 36 RSRZ outliers are listed below:

Mol	Chain	$\mathbf{Res}$	Type	RSRZ
1	С	146	ALA	9.7
1	А	146	ALA	9.4
1	С	15	GLU	6.2
1	С	14	LYS	5.7
1	А	13	GLU	5.6

## 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)

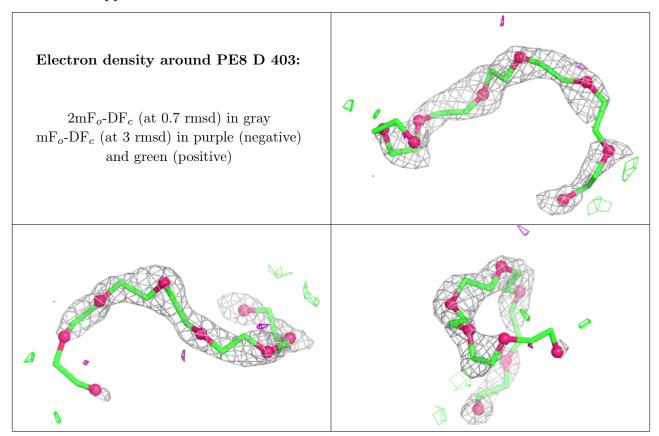
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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



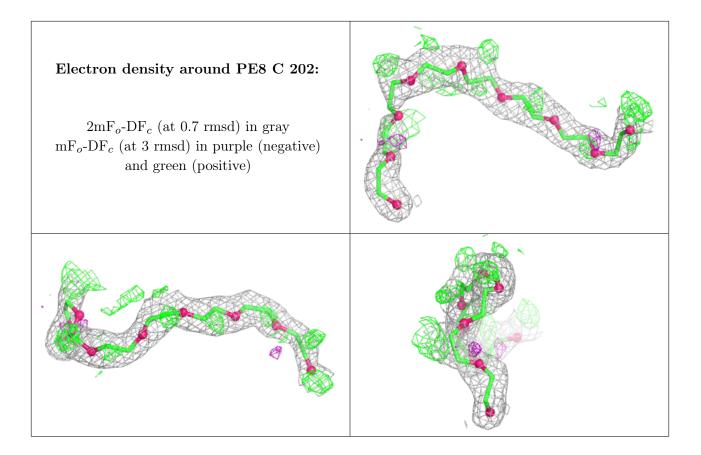
7PYT	
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B$ -factors( $Å^2$ )	Q<0.9
4	PE8	D	403	22/25	0.69	0.35	74,80,99,111	0
4	PE8	С	202	25/25	0.78	0.18	43,64,83,104	0
4	PE8	А	202	22/25	0.83	0.26	62,74,100,114	0
9	EPE	D	404	15/15	0.85	0.26	82,103,110,110	0
4	PE8	В	404[A]	22/25	0.91	0.38	64,67,71,71	22
5	PO4	В	402	5/5	0.95	0.17	69,75,87,111	0
7	COA	D	401	48/48	0.96	0.07	27,37,89,92	0
5	PO4	В	401	5/5	0.96	0.13	67,67,82,87	0
8	CL	D	402	1/1	0.98	0.24	$53,\!53,\!53,\!53$	0
6	MG	В	403	1/1	0.98	0.09	44,44,44,44	0
3	ZN	А	201	1/1	0.99	0.04	36,36,36,36	0
3	ZN	С	201	1/1	0.99	0.07	31,31,31,31	0

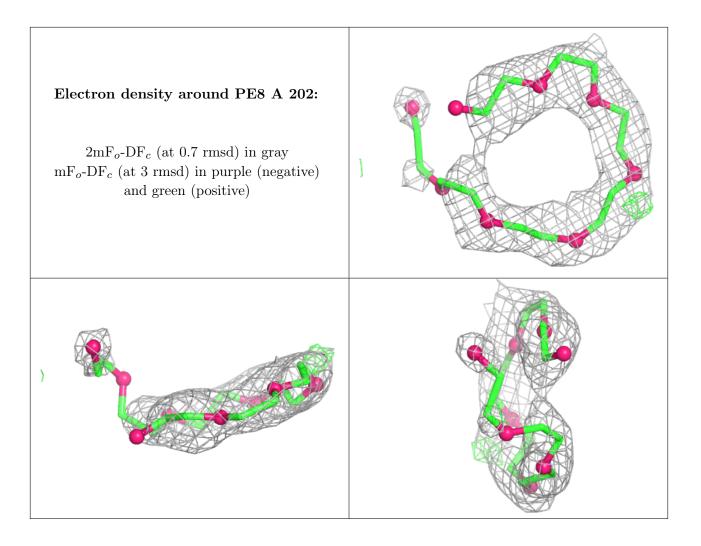
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



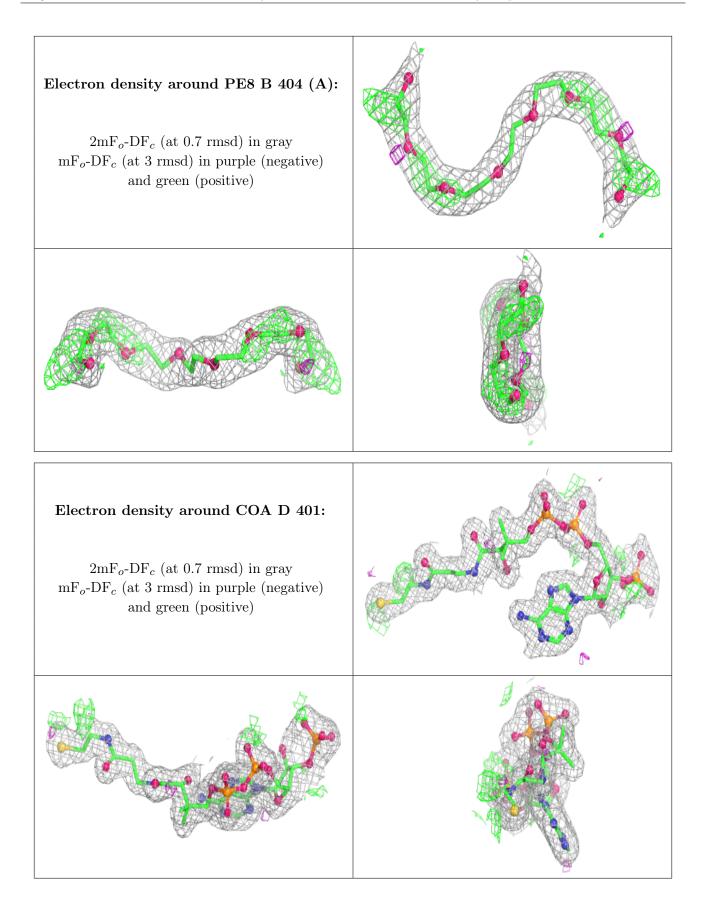














## 6.5 Other polymers (i)

There are no such residues in this entry.

