

Full wwPDB X-ray Structure Validation Report (i)

Aug 17, 2023 – 12:02 AM EDT

PDB ID	:	2ERV
Title	:	Crystal structure of the outer membrane enzyme PagL
Authors	:	Rutten, L.; Geurtsen, J.; Lambert, W.; Smolenaers, J.J.; Bonvin, A.M.; van
		der Ley, P.; Egmond, M.R.; Gros, P.; Tommassen, J.
Deposited on	:	2005-10-25
Resolution	:	2.00 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 (i) 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 (1)) were used in the production of this report:

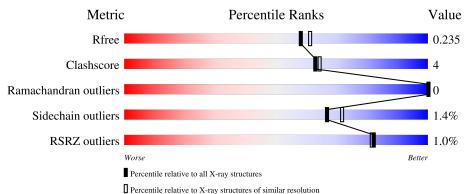
MolProbity	:	4.02b-467 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)		
EDS	:	2.35
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35

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 2.00 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	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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	150	% 91%	7% ••
1	В	150	% 85%	12% ••



2ERV

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 2518 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.

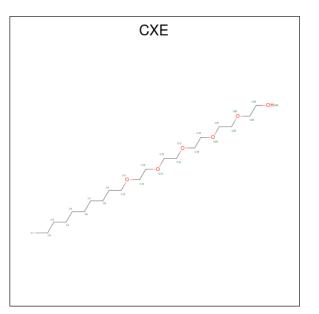
• Molecule 1 is a protein called hypothetical protein Paer03002360.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Λ	150	Total C N O S		19	0 0	0			
	A	150	1143	730	191	221	1	12	0	0
1	В	146	Total	С	Ν	0	S	20	0	0
	D	140	1118	717	187	213	1	20		

• Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	Total Ca 1 1	0	0

• Molecule 3 is PENTAETHYLENE GLYCOL MONODECYL ETHER (three-letter code: CXE) (formula: $C_{20}H_{42}O_6$).



Mol	Chain	Residues	Ator	ns	ZeroOcc	AltConf
3	А	1	Total 0 12	C O 8 4	0	0



Mol	-	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total C O 17 11 6	0	0
3	А	1	Total C O 10 6 4	0	0
3	А	1	Total C O 13 11 2	0	0
3	В	1	Total C O 11 10 1	0	0
3	В	1	Total C O 10 6 4	0	0
3	В	1	Total C O 15 10 5	0	0
3	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 7 5 2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 6 5 1 \end{array}$	0	0
3	В	1	Total C O 10 6 4	0	0
3	В	1	Total C O 11 10 1	0	0
3	В	1	Total C O 13 8 5	0	0

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• Molecule 4 is water.

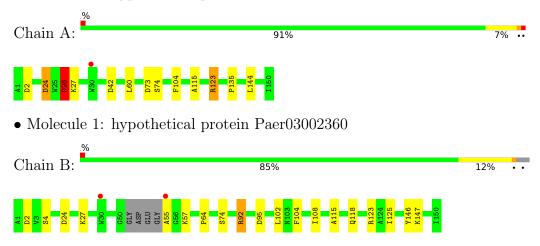
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	70	Total O 70 70	0	0
4	В	51	Total O 51 51	0	0



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: hypothetical protein Paer03002360





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	92.26Å 48.99Å 105.03Å	Depositor
a, b, c, α , β , γ	90.00° 115.46° 90.00°	Depositor
Resolution (Å)	30.00 - 2.00	Depositor
Resolution (A)	24.01 - 2.00	EDS
% Data completeness	90.9(30.00-2.00)	Depositor
(in resolution range)	91.0 (24.01-2.00)	EDS
R _{merge}	0.05	Depositor
R_{sym}	0.05	Depositor
$< I/\sigma(I) > 1$	$2.41 (at 1.99 \text{\AA})$	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.198 , 0.233	Depositor
II, II, <i>free</i>	0.199 , 0.235	DCC
R_{free} test set	1336 reflections (5.08%)	wwPDB-VP
Wilson B-factor $(Å^2)$	30.4	Xtriage
Anisotropy	0.140	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.38 , 61.2	EDS
L-test for twinning ²	$< L > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.119 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	2518	wwPDB-VP
Average B, all atoms $(Å^2)$	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.62% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities 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: CA, CXE

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	Mol Chain		nd lengths	Bond angles		
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	1.05	3/1176~(0.3%)	1.12	10/1594~(0.6%)	
1	В	0.89	2/1150~(0.2%)	0.96	4/1558~(0.3%)	
All	All	0.98	5/2326~(0.2%)	1.04	14/3152~(0.4%)	

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	А	0	1

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	А	144	LEU	CG-CD2	14.62	2.06	1.51
1	А	144	LEU	CG-CD1	-11.24	1.10	1.51
1	А	26	ASP	CA-C	7.91	1.73	1.52
1	В	92	ARG	CA-CB	-6.74	1.39	1.53
1	В	27	LYS	CB-CG	-5.80	1.36	1.52

All (5) bond length outliers are listed below:

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$\mathbf{Ideal}(^{o})$
1	А	144	LEU	CB-CG-CD2	-14.61	86.17	111.00
1	В	27	LYS	CA-CB-CG	13.73	143.62	113.40
1	А	26	ASP	CA-C-N	-9.84	95.56	117.20
1	А	144	LEU	CB-CG-CD1	9.29	126.80	111.00
1	В	2	ASP	CB-CG-OD2	8.76	126.19	118.30
1	А	24	ASP	CB-CG-OD2	8.60	126.04	118.30



Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
1	А	26	ASP	N-CA-C	7.69	131.78	111.00
1	А	27	LYS	CA-CB-CG	7.51	129.93	113.40
1	А	42	ASP	CB-CG-OD2	7.15	124.74	118.30
1	А	73	ASP	CB-CG-OD2	6.76	124.38	118.30
1	В	24	ASP	CB-CG-OD2	6.63	124.26	118.30
1	А	2	ASP	CB-CG-OD2	5.83	123.55	118.30
1	В	95	ASP	CB-CG-OD2	5.27	123.04	118.30
1	А	123	ARG	NE-CZ-NH1	-5.05	117.78	120.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	А	26	ASP	Mainchain

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	1143	0	1069	6	0
1	В	1118	0	1052	13	0
2	А	1	0	0	0	0
3	А	52	0	67	0	0
3	В	83	0	117	6	0
4	А	70	0	0	4	0
4	В	51	0	0	2	0
All	All	2518	0	2305	20	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 (20) 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:B:4:SER:HB3	1:B:147:LYS:HG2	1.63	0.81



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:74:SER:HA	1:B:115:ALA:HB2	1.70	0.73
1:A:123:ARG:NH1	4:A:865:HOH:O	2.09	0.67
1:A:135:PRO:O	4:A:839:HOH:O	2.15	0.64
1:B:64:PRO:HG2	4:B:1215:HOH:O	1.98	0.64
1:A:74:SER:HA	1:A:115:ALA:HB2	1.81	0.60
1:B:108:ILE:HG23	3:B:1100:CXE:H082	1.85	0.58
1:A:123:ARG:NH2	4:A:865:HOH:O	2.32	0.57
1:B:123:ARG:CD	1:B:125:ILE:HD11	2.38	0.54
1:A:123:ARG:NH1	4:A:818:HOH:O	2.29	0.50
1:B:104:PHE:CG	3:B:1200:CXE:H242	2.48	0.48
1:B:123:ARG:HD2	1:B:125:ILE:HD11	1.98	0.46
1:B:55:ALA:N	4:B:1251:HOH:O	2.48	0.46
1:B:123:ARG:HD3	1:B:125:ILE:HD11	1.98	0.46
1:A:104:PHE:CG	3:B:1200:CXE:H161	2.52	0.45
3:B:200:CXE:H192	3:B:1200:CXE:H251	1.98	0.45
1:B:57:LYS:HE2	1:B:92:ARG:O	2.19	0.43
1:B:108:ILE:HG23	3:B:1100:CXE:H061	2.00	0.42
1:B:102:LEU:HB3	3:B:1000:CXE:H191	2.02	0.41
1:B:118:GLN:NE2	1:B:146:TYR:OH	2.52	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	Perce	ntiles
1	А	148/150~(99%)	144 (97%)	4(3%)	0	100	100
1	В	142/150~(95%)	140 (99%)	2(1%)	0	100	100
All	All	290/300~(97%)	284 (98%)	6(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	112/112~(100%)	109~(97%)	3~(3%)	44 46		
1	В	110/112~(98%)	110 (100%)	0	100 100		
All	All	222/224~(99%)	219~(99%)	3(1%)	67 72		

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

Mol	Chain	Res	Type
1	А	24	ASP
1	А	26	ASP
1	А	60	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	В	118	GLN

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 13 ligands modelled in this entry, 1 is monoatomic - leaving 12 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	Turne	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
IVIOI	Type	Unam	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	CXE	А	700	-	9,9,25	0.43	0	8,8,24	0.27	0
3	CXE	В	1200	2	12,12,25	0.50	0	11,11,24	0.63	0
3	CXE	А	800	-	12,12,25	0.37	0	11,11,24	0.57	0
3	CXE	А	600	-	16, 16, 25	0.40	0	$15,\!15,\!24$	0.51	0
3	CXE	В	200	-	9,9,25	0.39	0	8,8,24	0.65	0
3	CXE	В	196	-	10,10,25	0.34	0	9,9,24	0.47	0
3	CXE	А	300	-	11,11,25	0.49	0	10,10,24	0.36	0
3	CXE	В	1100	-	10,10,25	0.25	0	9,9,24	0.69	0
3	CXE	В	400	-	14,14,25	0.48	0	13,13,24	0.59	0
3	CXE	В	900	-	$5,\!5,\!25$	0.29	0	4,4,24	0.31	0
3	CXE	В	1000	-	9,9,25	0.35	0	8,8,24	0.53	0
3	CXE	В	500	-	$6,\!6,\!25$	0.46	0	5,5,24	0.19	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	CXE	А	700	-	-	4/7/7/23	-
3	CXE	В	1200	2	-	4/10/10/23	-
3	CXE	А	800	-	-	4/10/10/23	-
3	CXE	А	600	-	-	12/14/14/23	-
3	CXE	В	200	-	-	2/7/7/23	-
3	CXE	В	196	-	-	2/8/8/23	-
3	CXE	А	300	-	-	5/9/9/23	-
3	CXE	В	1100	-	-	4/8/8/23	-
3	CXE	В	400	-	-	8/12/12/23	-
3	CXE	В	900	-	-	0/3/3/23	-



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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	CXE	В	1000	-	-	3/7/7/23	-
3	CXE	В	500	-	-	3/4/4/23	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (51) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	В	1000	CXE	C22-C21-O20-C19
3	А	300	CXE	O17-C18-C19-O20
3	А	800	CXE	O11-C12-C13-O14
3	В	500	CXE	O20-C21-C22-O23
3	А	600	CXE	O14-C15-C16-O17
3	А	600	CXE	O17-C18-C19-O20
3	В	400	CXE	O17-C18-C19-O20
3	А	600	CXE	O11-C12-C13-O14
3	А	300	CXE	O20-C21-C22-O23
3	В	1200	CXE	O23-C24-C25-O26
3	В	200	CXE	O20-C21-C22-O23
3	А	700	CXE	O20-C21-C22-O23
3	В	1200	CXE	O17-C18-C19-O20
3	В	196	CXE	C5-C6-C7-C8
3	В	1100	CXE	C7-C8-C9-C10
3	А	800	CXE	C7-C8-C9-C10
3	В	1100	CXE	C6-C7-C8-C9
3	В	1200	CXE	O20-C21-C22-O23
3	А	600	CXE	O23-C24-C25-O26
3	В	400	CXE	O14-C15-C16-O17
3	А	600	CXE	C13-C12-O11-C10
3	В	1100	CXE	C5-C6-C7-C8
3	А	600	CXE	C19-C18-O17-C16
3	В	1200	CXE	O14-C15-C16-O17
3	А	300	CXE	C15-C16-O17-C18
3	А	600	CXE	C22-C21-O20-C19
3	А	800	CXE	C13-C12-O11-C10
3	А	600	CXE	C18-C19-O20-C21
3	А	700	CXE	C22-C21-O20-C19
3	А	600	CXE	C12-C13-O14-C15
3	В	400	CXE	C19-C18-O17-C16



Mol	Chain	Res	Type	Atoms
3	А	700	CXE	O23-C24-C25-O26
3	В	400	CXE	C25-C24-O23-C22
3	А	600	CXE	C25-C24-O23-C22
3	В	1000	CXE	O17-C18-C19-O20
3	В	400	CXE	C21-C22-O23-C24
3	В	1100	CXE	C2-C3-C4-C5
3	А	800	CXE	C9-C10-O11-C12
3	В	500	CXE	C21-C22-O23-C24
3	В	200	CXE	O17-C18-C19-O20
3	В	500	CXE	C18-C19-O20-C21
3	А	300	CXE	C19-C18-O17-C16
3	В	196	CXE	C3-C4-C5-C6
3	В	400	CXE	C22-C21-O20-C19
3	А	700	CXE	C25-C24-O23-C22
3	В	400	CXE	C12-C13-O14-C15
3	В	400	CXE	O20-C21-C22-O23
3	А	600	CXE	O20-C21-C22-O23
3	А	300	CXE	C18-C19-O20-C21
3	А	600	CXE	C16-C15-O14-C13
3	В	1000	CXE	O20-C21-C22-O23

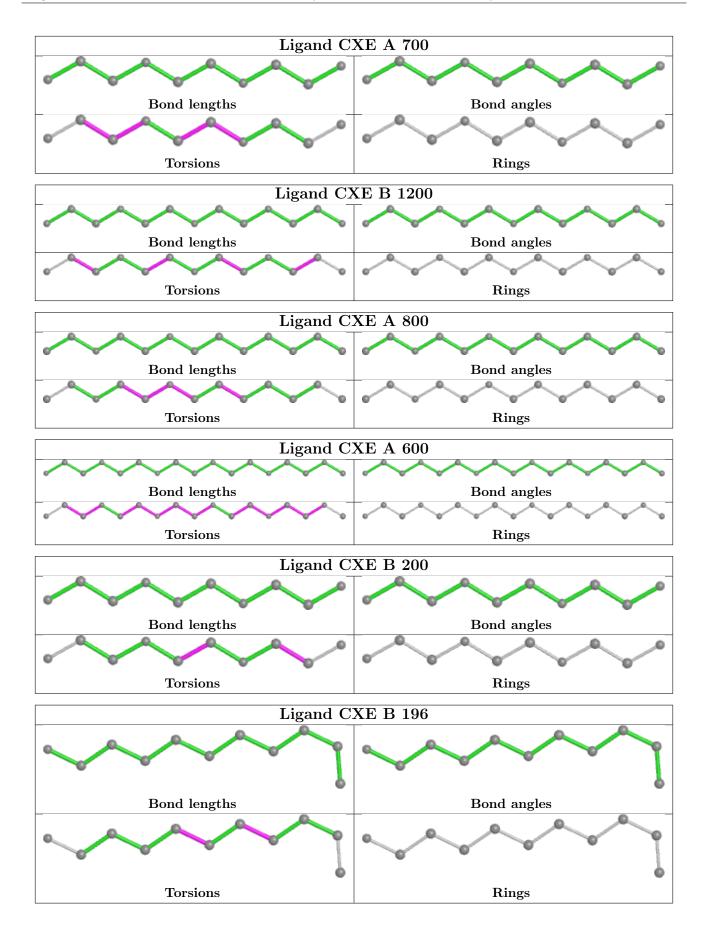
There are no ring outliers.

4 monomers are involved in 6 short contacts:

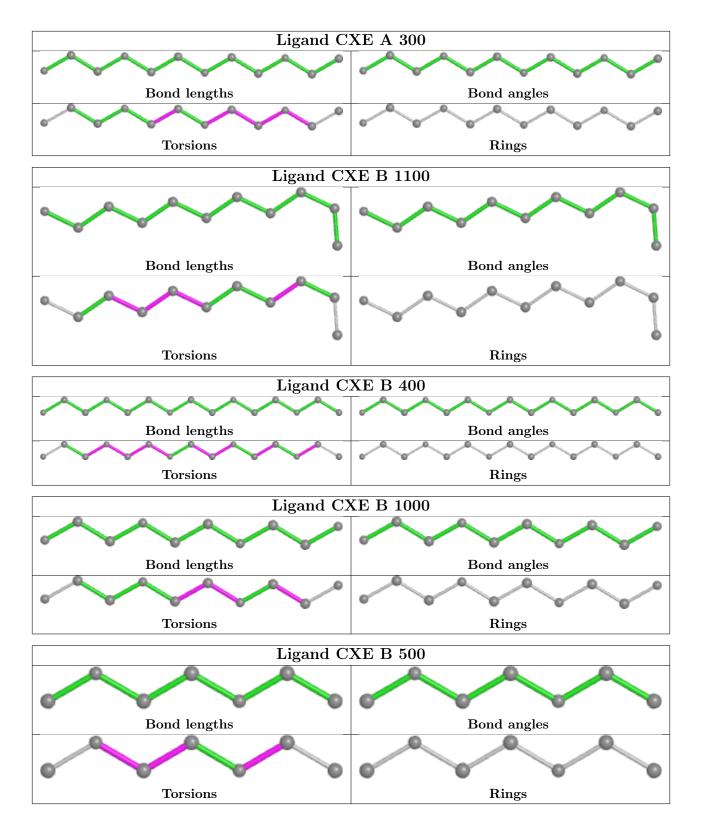
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	В	1200	CXE	3	0
3	В	200	CXE	1	0
3	В	1100	CXE	2	0
3	В	1000	CXE	1	0

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 sup 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	$\mathbf{OWAB}(\mathbf{A}^2)$	Q<0.9
1	А	150/150~(100%)	-0.30	1 (0%) 87 87	21, 28, 36, 43	4 (2%)
1	В	146/150~(97%)	-0.25	2 (1%) 75 74	22, 27, 37, 43	6 (4%)
All	All	296/300~(98%)	-0.27	3 (1%) 82 81	21, 28, 37, 43	10 (3%)

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	55	ALA	4.3
1	А	30	TRP	3.3
1	В	30	TRP	2.6

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)

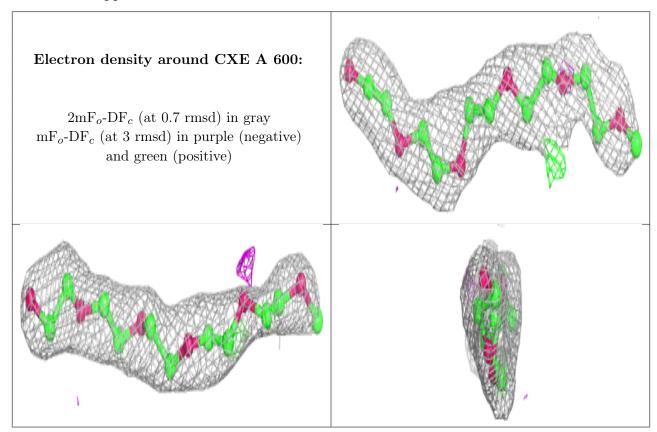
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
3	CXE	А	600	17/26	0.75	0.22	$51,\!55,\!61,\!62$	0
3	CXE	А	300	12/26	0.83	0.21	$50,\!52,\!57,\!59$	0

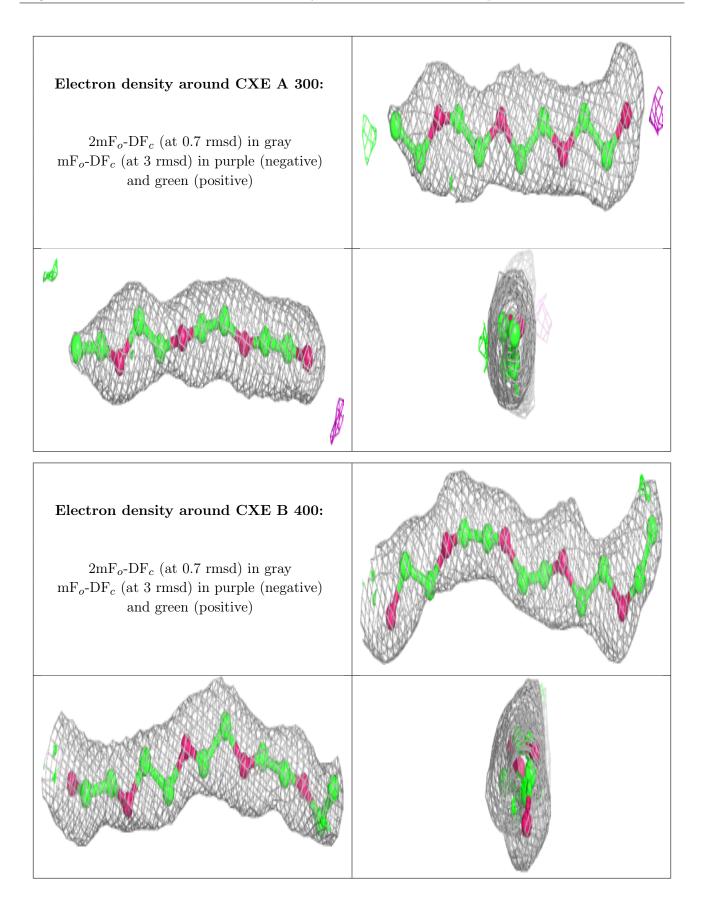


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Mol	Type	Chain	\mathbf{Res}	Atoms	RSCC	\mathbf{RSR}	$B-factors(A^2)$	$\mathbf{Q}{<}0.9$			
3	CXE	В	400	15/26	0.84	0.19	$49,\!53,\!55,\!55$	0			
3	CXE	В	900	6/26	0.84	0.17	52,53,54,54	0			
3	CXE	В	196	11/26	0.85	0.18	46,49,51,51	0			
3	CXE	А	700	10/26	0.88	0.20	54,55,58,58	0			
3	CXE	В	200	10/26	0.88	0.15	40,44,46,48	0			
3	CXE	В	1000	10/26	0.90	0.19	54,56,59,61	0			
3	CXE	В	500	7/26	0.91	0.13	48,49,51,52	0			
3	CXE	А	800	13/26	0.92	0.14	43,47,51,51	0			
3	CXE	В	1100	11/26	0.92	0.14	34,36,46,49	0			
3	CXE	В	1200	13/26	0.96	0.14	25,31,34,34	0			
2	CA	А	195	1/1	0.99	0.09	21,21,21,21	0			

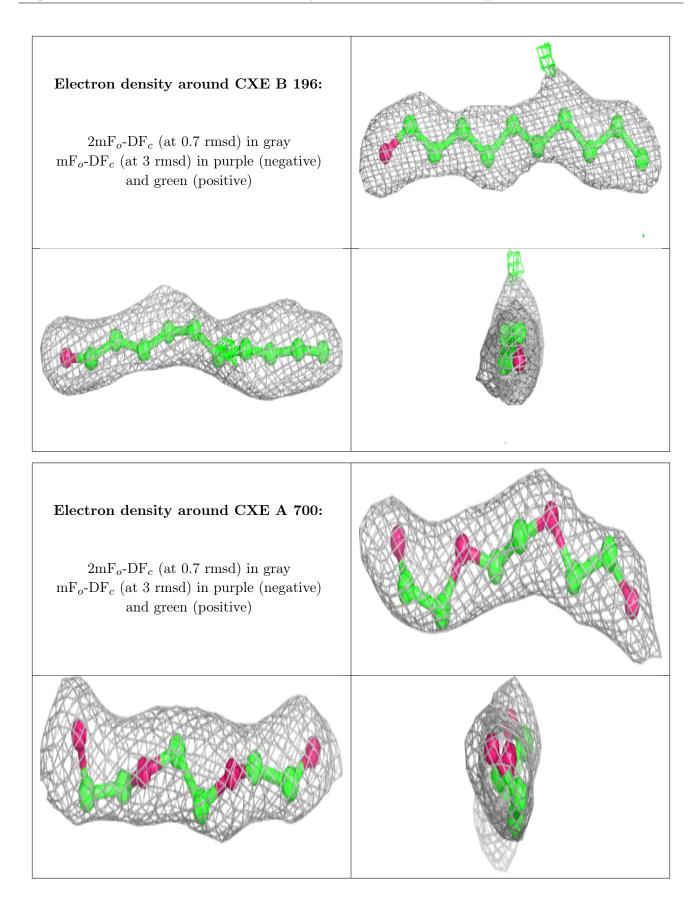
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



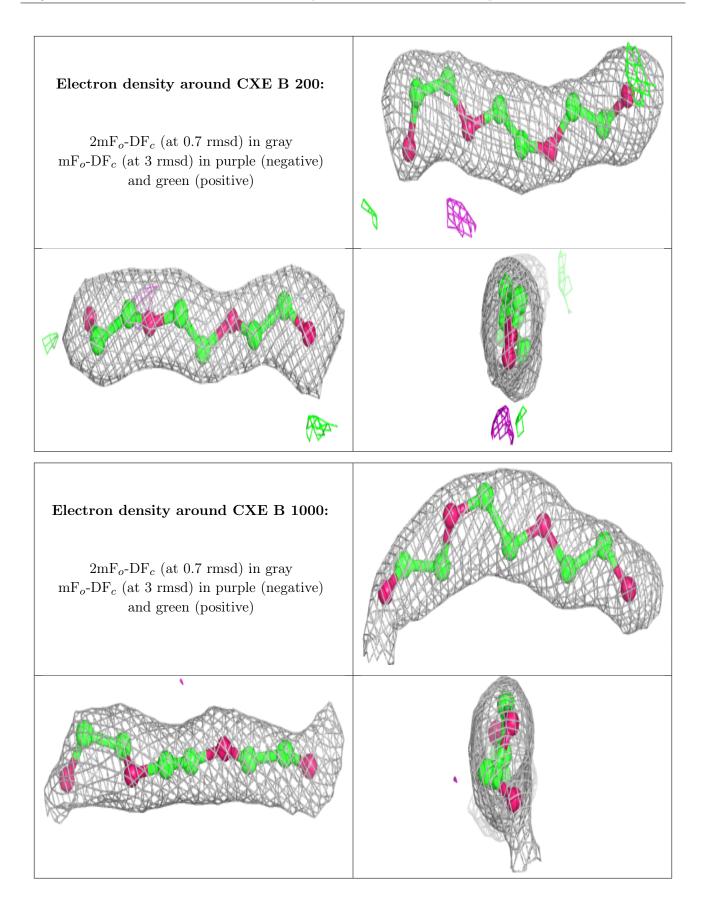




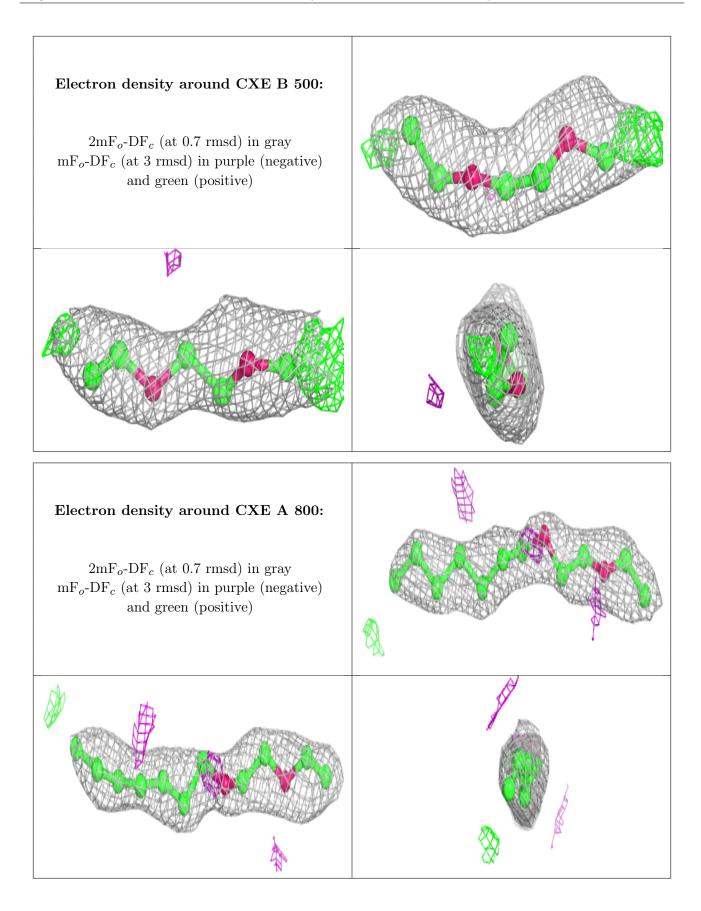




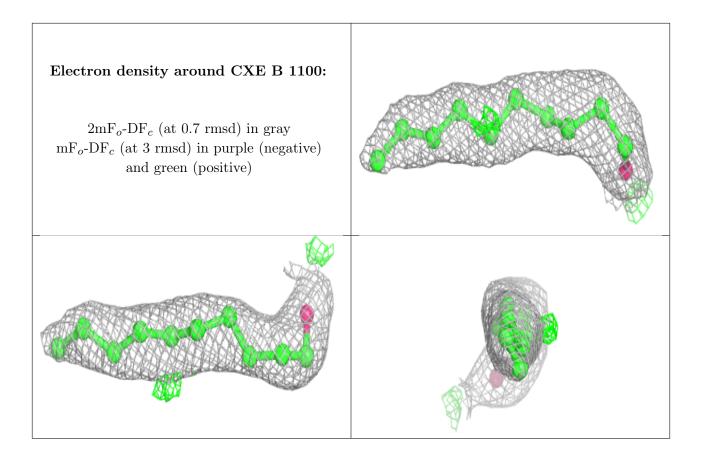




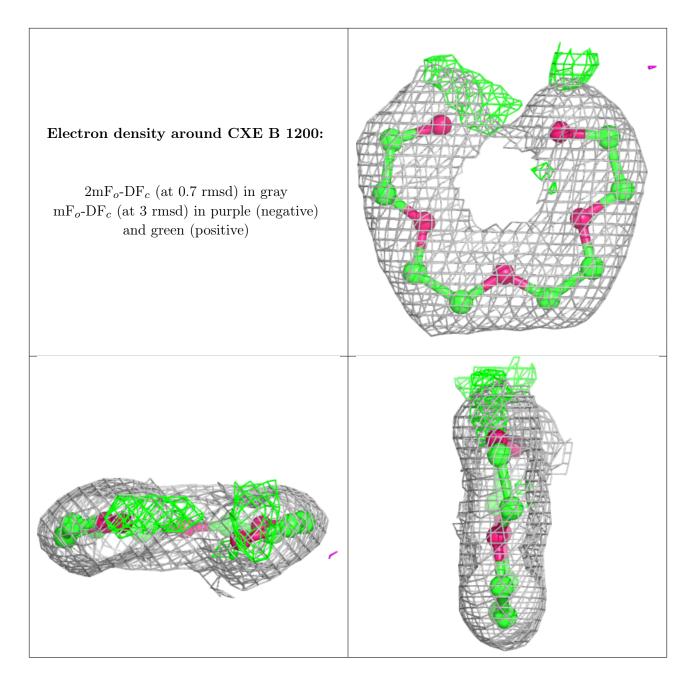












6.5 Other polymers (i)

There are no such residues in this entry.

