



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 3, 2024 – 01:41 AM EST

PDB ID : 6AX6
Title : The crystal structure of a lysyl hydroxylase from *Acanthamoeba polyphaga* mimivirus
Authors : Guo, H.; Tsai, C.; Miller, M.D.; Alvarado, S.; Tainer, J.A.; Phillips Jr., G.N.; Kurie, J.M.
Deposited on : 2017-09-06
Resolution : 2.24 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 : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

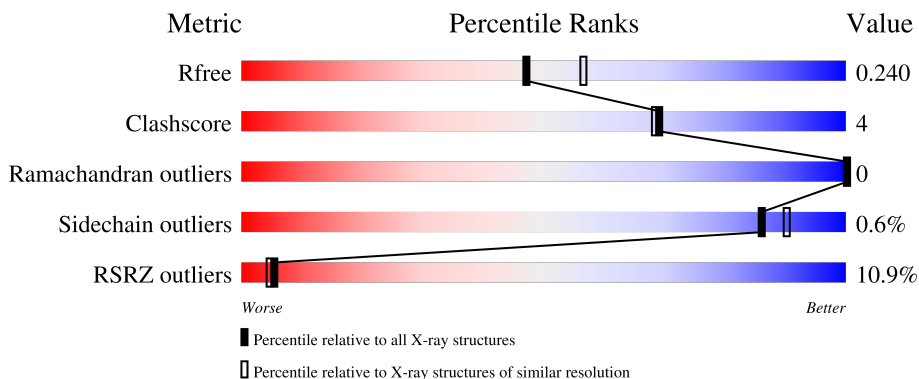
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.24 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	2391 (2.26-2.22)
Clashscore	141614	2539 (2.26-2.22)
Ramachandran outliers	138981	2489 (2.26-2.22)
Sidechain outliers	138945	2490 (2.26-2.22)
RSRZ outliers	127900	2353 (2.26-2.22)

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	235	 9% (poor fit), 74% (0-1 outliers), 7% (2 outliers), 10% (3+ outliers), 2% (not modelled)
1	B	235	 9% (poor fit), 76% (0-1 outliers), 8% (2 outliers), 7% (3+ outliers), 0% (not modelled)

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
2	IOD	A	905[C]	-	-	X	-
2	IOD	B	909[A]	-	-	X	-
2	IOD	B	917	-	-	-	X

2 Entry composition i

There are 4 unique types of molecules in this entry. The entry contains 3315 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 lysyl hydroxylase and glycosyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	189	Total	C	N	O	S	0	1	0
			1555	1025	251	274	5			
1	B	197	Total	C	N	O	S	0	1	0
			1616	1059	261	291	5			

There are 38 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	661	MET	-	expression tag	UNP Q5UQC3
A	662	GLY	-	expression tag	UNP Q5UQC3
A	663	SER	-	expression tag	UNP Q5UQC3
A	664	SER	-	expression tag	UNP Q5UQC3
A	665	HIS	-	expression tag	UNP Q5UQC3
A	666	HIS	-	expression tag	UNP Q5UQC3
A	667	HIS	-	expression tag	UNP Q5UQC3
A	668	HIS	-	expression tag	UNP Q5UQC3
A	669	HIS	-	expression tag	UNP Q5UQC3
A	670	HIS	-	expression tag	UNP Q5UQC3
A	671	ALA	-	expression tag	UNP Q5UQC3
A	672	SER	-	expression tag	UNP Q5UQC3
A	673	GLY	-	expression tag	UNP Q5UQC3
A	674	LEU	-	expression tag	UNP Q5UQC3
A	675	VAL	-	expression tag	UNP Q5UQC3
A	676	PRO	-	expression tag	UNP Q5UQC3
A	677	ARG	-	expression tag	UNP Q5UQC3
A	678	GLY	-	expression tag	UNP Q5UQC3
A	679	SER	-	expression tag	UNP Q5UQC3
B	661	MET	-	expression tag	UNP Q5UQC3
B	662	GLY	-	expression tag	UNP Q5UQC3
B	663	SER	-	expression tag	UNP Q5UQC3
B	664	SER	-	expression tag	UNP Q5UQC3
B	665	HIS	-	expression tag	UNP Q5UQC3
B	666	HIS	-	expression tag	UNP Q5UQC3

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Chain	Residue	Modelled	Actual	Comment	Reference
B	667	HIS	-	expression tag	UNP Q5UQC3
B	668	HIS	-	expression tag	UNP Q5UQC3
B	669	HIS	-	expression tag	UNP Q5UQC3
B	670	HIS	-	expression tag	UNP Q5UQC3
B	671	ALA	-	expression tag	UNP Q5UQC3
B	672	SER	-	expression tag	UNP Q5UQC3
B	673	GLY	-	expression tag	UNP Q5UQC3
B	674	LEU	-	expression tag	UNP Q5UQC3
B	675	VAL	-	expression tag	UNP Q5UQC3
B	676	PRO	-	expression tag	UNP Q5UQC3
B	677	ARG	-	expression tag	UNP Q5UQC3
B	678	GLY	-	expression tag	UNP Q5UQC3
B	679	SER	-	expression tag	UNP Q5UQC3

- Molecule 2 is IODIDE ION (three-letter code: IOD) (formula: I).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	34	Total I 48 48	0	10
2	B	34	Total I 52 52	0	12

- Molecule 3 is FE (II) ION (three-letter code: FE2) (formula: Fe).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Fe 1 1	0	0
3	B	1	Total Fe 1 1	0	0

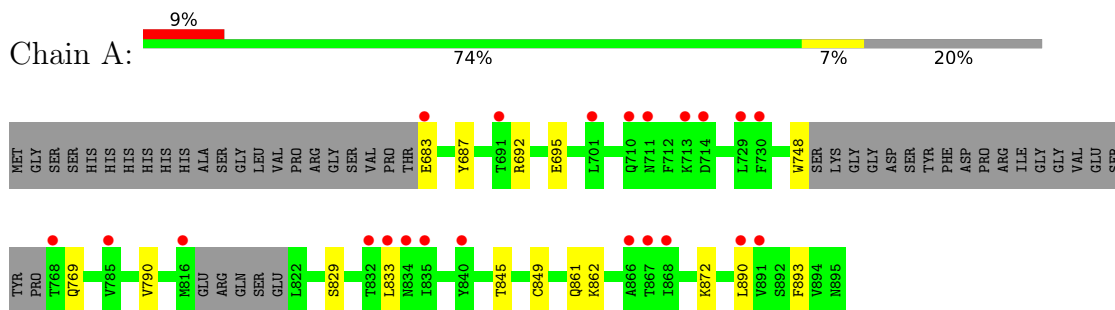
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	17	Total O 17 17	0	0
4	B	25	Total O 25 25	0	0

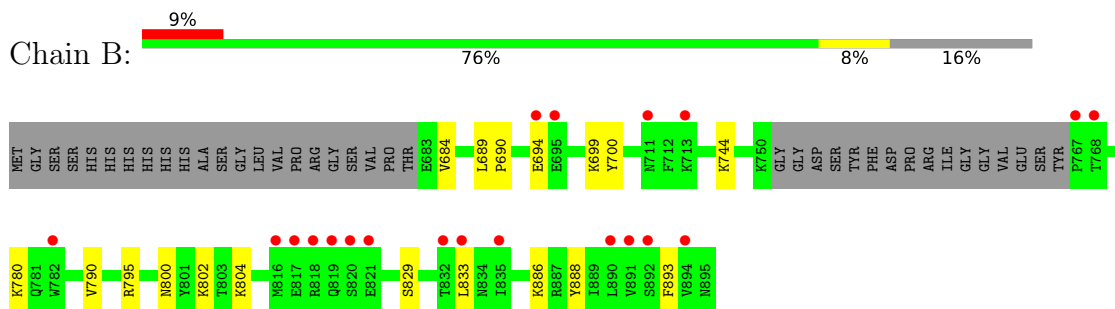
3 Residue-property plots [i](#)

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: Procollagen lysyl hydroxylase and glycosyltransferase



- Molecule 1: Procollagen lysyl hydroxylase and glycosyltransferase



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	109.21Å 109.21Å 83.91Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	28.49 – 2.24 28.49 – 2.24	Depositor EDS
% Data completeness (in resolution range)	97.7 (28.49-2.24) 96.9 (28.49-2.24)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.50 (at 2.24Å)	Xtrriage
Refinement program	PHENIX (1.12_2829: ???)	Depositor
R, R_{free}	0.223 , 0.240 0.223 , 0.240	Depositor DCC
R_{free} test set	2000 reflections (8.07%)	wwPDB-VP
Wilson B-factor (Å ²)	36.2	Xtrriage
Anisotropy	0.223	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 28.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	3315	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.14% 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: IOD, FE2

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	0.24	0/1603	0.43	0/2180
1	B	0.24	0/1670	0.42	0/2273
All	All	0.24	0/3273	0.42	0/4453

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

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	1555	0	1475	10	0
1	B	1616	0	1527	13	0
2	A	48	0	0	6	0
2	B	52	0	0	4	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	17	0	0	0	0
4	B	25	0	0	1	0
All	All	3315	0	3002	23	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 (23) 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:780:LYS:NZ	4:B:1001:HOH:O	2.17	0.77
1:A:790:VAL:HG11	1:A:833[B]:LEU:HD11	1.70	0.74
1:B:790:VAL:HG11	1:B:833[B]:LEU:HD11	1.78	0.65
1:B:694:GLU:HG2	2:B:931[B]:IOD:I	2.72	0.59
1:A:829:SER:HB3	1:A:893:PHE:HB3	1.84	0.59
1:B:795:ARG:NE	2:B:909[A]:IOD:I	3.06	0.58
1:A:748:TRP:HB3	1:A:769:GLN:HG3	1.88	0.56
1:A:861:GLN:HE21	1:A:862:LYS:H	1.57	0.53
2:A:905[C]:IOD:I	1:B:804:LYS:HE2	2.79	0.53
1:B:795:ARG:NH2	2:B:909[A]:IOD:I	3.15	0.50
1:B:829:SER:HB3	1:B:893:PHE:HB3	1.94	0.49
1:A:683:GLU:HG3	1:A:692:ARG:HH12	1.79	0.47
1:A:695:GLU:HG3	2:A:927[B]:IOD:I	2.85	0.46
1:B:684:VAL:HG12	2:B:920[A]:IOD:I	2.86	0.46
1:B:886:LYS:HD3	1:B:888:TYR:HE1	1.82	0.44
1:B:795:ARG:HB3	1:B:800:ASN:HA	2.00	0.44
1:A:845:THR:HG22	2:A:924:IOD:I	2.87	0.43
1:B:802:LYS:O	1:B:804:LYS:NZ	2.40	0.43
1:A:849:CYS:HB2	2:A:923:IOD:I	2.89	0.43
1:A:872:LYS:HE2	2:A:905[C]:IOD:I	2.89	0.43
1:B:689:LEU:HD12	1:B:690:PRO:HA	2.01	0.42
1:B:699:LYS:HD3	1:B:700:TYR:CZ	2.55	0.40
1:A:687:TYR:HB3	2:A:933:IOD:I	2.92	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	184/235 (78%)	176 (96%)	8 (4%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	194/235 (83%)	184 (95%)	10 (5%)	0	100	100
All	All	378/470 (80%)	360 (95%)	18 (5%)	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	160/208 (77%)	159 (99%)	1 (1%)	86	90
1	B	169/208 (81%)	168 (99%)	1 (1%)	86	90
All	All	329/416 (79%)	327 (99%)	2 (1%)	86	90

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

Mol	Chain	Res	Type
1	A	890	LEU
1	B	744	LYS

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

Mol	Chain	Res	Type
1	A	861	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 102 ligands modelled in this entry, 102 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

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	189/235 (80%)	0.55	22 (11%) 4 3	25, 34, 49, 67	0
1	B	197/235 (83%)	0.49	20 (10%) 6 6	23, 31, 49, 62	0
All	All	386/470 (82%)	0.52	42 (10%) 5 5	23, 33, 49, 67	0

All (42) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	833[A]	LEU	6.1
1	B	820	SER	5.0
1	B	821	GLU	4.8
1	A	714	ASP	4.4
1	B	890	LEU	4.1
1	A	835	ILE	4.0
1	B	835	ILE	3.5
1	A	866	ALA	3.5
1	B	817	GLU	3.4
1	B	816	MET	3.2
1	B	695	GLU	3.2
1	A	816	MET	3.2
1	A	710	GLN	3.1
1	A	833[A]	LEU	3.1
1	A	729	LEU	3.1
1	B	768	THR	3.0
1	A	701	LEU	2.8
1	A	785	VAL	2.8
1	B	767	PRO	2.7
1	A	867	THR	2.7
1	A	730	PHE	2.7
1	B	694	GLU	2.6
1	A	768	THR	2.6
1	A	868	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	819	GLN	2.4
1	B	711	ASN	2.4
1	A	891	VAL	2.4
1	B	894	VAL	2.4
1	A	890	LEU	2.4
1	A	832	THR	2.3
1	B	892	SER	2.3
1	B	891	VAL	2.3
1	B	818	ARG	2.3
1	B	713	LYS	2.3
1	A	711	ASN	2.3
1	B	832	THR	2.2
1	A	840	TYR	2.2
1	A	834	ASN	2.1
1	A	683	GLU	2.1
1	A	713	LYS	2.1
1	B	782	TRP	2.1
1	A	691	THR	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, 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(Å ²)	Q<0.9
2	IOD	B	917	1/1	-0.31	7.73	237,237,237,237	0
2	IOD	B	903	1/1	0.09	0.28	86,86,86,86	1
2	IOD	B	925	1/1	0.45	0.37	86,86,86,86	1
2	IOD	A	913	1/1	0.54	0.25	161,161,161,161	0
2	IOD	B	910[A]	1/1	0.68	0.12	53,53,53,53	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	IOD	B	910[B]	1/1	0.68	0.12	52,52,52,52	1
2	IOD	B	918	1/1	0.69	0.32	124,124,124,124	0
2	IOD	A	933	1/1	0.70	0.12	85,85,85,85	1
2	IOD	B	915	1/1	0.73	0.12	127,127,127,127	0
2	IOD	A	909	1/1	0.73	0.20	125,125,125,125	0
2	IOD	B	930	1/1	0.73	0.14	83,83,83,83	1
2	IOD	A	932	1/1	0.75	0.28	74,74,74,74	1
2	IOD	A	908	1/1	0.76	0.24	137,137,137,137	0
2	IOD	A	930	1/1	0.76	0.33	67,67,67,67	1
2	IOD	B	933	1/1	0.76	0.23	70,70,70,70	1
2	IOD	B	901	1/1	0.78	0.19	132,132,132,132	0
2	IOD	A	906[B]	1/1	0.79	0.12	51,51,51,51	1
2	IOD	A	906[C]	1/1	0.79	0.12	75,75,75,75	1
2	IOD	A	906[A]	1/1	0.79	0.12	62,62,62,62	1
2	IOD	B	926[C]	1/1	0.80	0.19	86,86,86,86	1
2	IOD	B	926[D]	1/1	0.80	0.19	44,44,44,44	1
2	IOD	B	929[A]	1/1	0.80	0.23	75,75,75,75	1
2	IOD	B	929[B]	1/1	0.80	0.23	89,89,89,89	1
2	IOD	B	926[A]	1/1	0.80	0.19	63,63,63,63	1
2	IOD	B	926[B]	1/1	0.80	0.19	57,57,57,57	1
2	IOD	A	927[B]	1/1	0.82	0.26	91,91,91,91	1
2	IOD	A	927[A]	1/1	0.82	0.26	88,88,88,88	1
2	IOD	A	931	1/1	0.85	0.18	37,37,37,37	1
2	IOD	A	929[B]	1/1	0.86	0.23	104,104,104,104	1
2	IOD	B	904	1/1	0.86	0.21	76,76,76,76	0
2	IOD	A	915	1/1	0.86	0.17	127,127,127,127	0
2	IOD	A	929[A]	1/1	0.86	0.23	75,75,75,75	1
2	IOD	B	931[B]	1/1	0.87	0.24	78,78,78,78	1
2	IOD	B	931[A]	1/1	0.87	0.24	113,113,113,113	1
2	IOD	A	917[A]	1/1	0.88	0.15	91,91,91,91	1
2	IOD	B	913[A]	1/1	0.88	0.17	47,47,47,47	1
2	IOD	B	913[B]	1/1	0.88	0.17	42,42,42,42	1
2	IOD	B	913[C]	1/1	0.88	0.17	78,78,78,78	1
2	IOD	A	917[B]	1/1	0.88	0.15	44,44,44,44	1
2	IOD	A	917[C]	1/1	0.88	0.15	44,44,44,44	1
2	IOD	A	916	1/1	0.89	0.12	71,71,71,71	1
2	IOD	A	935	1/1	0.90	0.14	61,61,61,61	1
2	IOD	A	921[A]	1/1	0.90	0.34	89,89,89,89	1
2	IOD	B	927[A]	1/1	0.90	0.09	66,66,66,66	1
2	IOD	B	927[B]	1/1	0.90	0.09	54,54,54,54	1
2	IOD	B	932	1/1	0.90	0.24	113,113,113,113	0
2	IOD	A	921[B]	1/1	0.90	0.34	79,79,79,79	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	IOD	B	934	1/1	0.90	0.23	135,135,135,135	0
2	IOD	B	924	1/1	0.91	0.15	69,69,69,69	1
2	IOD	B	916	1/1	0.91	0.22	120,120,120,120	0
2	IOD	A	914	1/1	0.91	0.31	119,119,119,119	0
2	IOD	B	902	1/1	0.91	0.10	71,71,71,71	1
2	IOD	B	922[A]	1/1	0.92	0.15	66,66,66,66	1
2	IOD	B	922[B]	1/1	0.92	0.15	84,84,84,84	1
2	IOD	B	919	1/1	0.92	0.18	116,116,116,116	0
2	IOD	B	920[A]	1/1	0.93	0.16	72,72,72,72	1
2	IOD	B	920[B]	1/1	0.93	0.16	67,67,67,67	1
2	IOD	A	928	1/1	0.93	0.25	100,100,100,100	0
2	IOD	A	922	1/1	0.93	0.14	107,107,107,107	0
2	IOD	A	925	1/1	0.94	0.30	104,104,104,104	0
2	IOD	B	923	1/1	0.94	0.22	86,86,86,86	1
3	FE2	A	934	1/1	0.94	0.10	69,69,69,69	0
2	IOD	B	921[B]	1/1	0.95	0.09	53,53,53,53	1
2	IOD	B	907	1/1	0.95	0.14	63,63,63,63	1
2	IOD	B	921[A]	1/1	0.95	0.09	78,78,78,78	1
2	IOD	A	924	1/1	0.96	0.18	104,104,104,104	0
2	IOD	A	919[A]	1/1	0.96	0.18	96,96,96,96	1
2	IOD	A	919[B]	1/1	0.96	0.18	52,52,52,52	1
2	IOD	A	920	1/1	0.96	0.16	102,102,102,102	0
2	IOD	B	928	1/1	0.96	0.18	90,90,90,90	0
2	IOD	B	911	1/1	0.96	0.13	76,76,76,76	0
2	IOD	A	923	1/1	0.96	0.09	94,94,94,94	0
2	IOD	A	904[B]	1/1	0.97	0.07	53,53,53,53	1
2	IOD	A	918[A]	1/1	0.97	0.11	69,69,69,69	1
2	IOD	A	926	1/1	0.97	0.16	93,93,93,93	0
2	IOD	A	918[B]	1/1	0.97	0.11	86,86,86,86	1
2	IOD	A	904[A]	1/1	0.97	0.07	56,56,56,56	1
2	IOD	A	911	1/1	0.97	0.15	145,145,145,145	0
3	FE2	B	935	1/1	0.97	0.05	51,51,51,51	0
2	IOD	B	906[D]	1/1	0.98	0.16	31,31,31,31	1
2	IOD	B	914	1/1	0.98	0.04	48,48,48,48	1
2	IOD	A	902[A]	1/1	0.98	0.11	40,40,40,40	1
2	IOD	A	910	1/1	0.98	0.09	83,83,83,83	0
2	IOD	A	902[B]	1/1	0.98	0.11	118,118,118,118	1
2	IOD	B	906[A]	1/1	0.98	0.16	28,28,28,28	1
2	IOD	B	912[A]	1/1	0.98	0.14	33,33,33,33	1
2	IOD	B	912[B]	1/1	0.98	0.14	72,72,72,72	1
2	IOD	B	912[C]	1/1	0.98	0.14	69,69,69,69	1
2	IOD	B	906[B]	1/1	0.98	0.16	24,24,24,24	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	IOD	B	906[C]	1/1	0.98	0.16	25,25,25,25	1
2	IOD	B	908	1/1	0.99	0.06	57,57,57,57	0
2	IOD	B	909[A]	1/1	0.99	0.10	39,39,39,39	1
2	IOD	B	909[B]	1/1	0.99	0.10	133,133,133,133	1
2	IOD	A	905[D]	1/1	0.99	0.17	24,24,24,24	1
2	IOD	A	901	1/1	0.99	0.05	49,49,49,49	0
2	IOD	B	905	1/1	0.99	0.04	50,50,50,50	0
2	IOD	A	905[A]	1/1	0.99	0.17	27,27,27,27	1
2	IOD	A	912	1/1	0.99	0.20	73,73,73,73	0
2	IOD	A	905[B]	1/1	0.99	0.17	21,21,21,21	1
2	IOD	A	907	1/1	0.99	0.04	45,45,45,45	0
2	IOD	A	905[C]	1/1	0.99	0.17	29,29,29,29	1
2	IOD	A	903	1/1	1.00	0.12	61,61,61,61	0

6.5 Other polymers [i](#)

There are no such residues in this entry.