

Full wwPDB X-ray Structure Validation Report (i)

Dec 9, 2024 – 10:11 AM EST

PDB ID : 8VB3

Title : Dienelactone hydrolase from Solimonas fluminis

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Deposited on : 2023-12-11

Resolution : 1.45 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

Mogul : 2022.3.0, CSD as543be (2022)

Xtriage (Phenix) : 1.21 EDS : 3.0

Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)

CCP4 : 9.0.004 (Gargrove)

Density-Fitness : 1.0.11

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

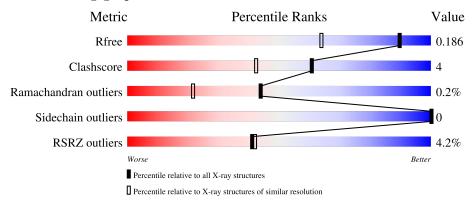
Validation Pipeline (wwPDB-VP) : 2.40

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 1.45 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	Similar resolution
Metric	$(\# \mathrm{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	164625	1556 (1.46-1.46)
Clashscore	180529	1653 (1.46-1.46)
Ramachandran outliers	177936	1635 (1.46-1.46)
Sidechain outliers	177891	1635 (1.46-1.46)
RSRZ outliers	164620	1556 (1.46-1.46)

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	A	252	88%	8%		-
1	В	252	88%	6%	5%	



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 4117 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 Dienelactone hydrolase.

\mathbf{Mol}	Chain	Residues		Atoms		ZeroOcc	AltConf	Trace			
1	Λ	241	Total	С	N	О	S	0	6	0	
1	Α	241	1878	1183	348	340	7	U	0	0	
1	D	238	Total	С	N	О	S	0	7	0	
1	Ъ	230	1864	1176	344	337	7	0	'	l	

There are 26 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-12	MET	-	initiating methionine	UNP A0A2S5TB63
A	-11	ALA	-	expression tag	UNP A0A2S5TB63
A	-10	SER	_	expression tag	UNP A0A2S5TB63
A	-9	TRP	-	expression tag	UNP A0A2S5TB63
A	-8	SER	-	expression tag	UNP A0A2S5TB63
A	-7	HIS	-	expression tag	UNP A0A2S5TB63
A	-6	PRO	-	expression tag	UNP A0A2S5TB63
A	-5	GLN	-	expression tag	UNP A0A2S5TB63
A	-4	PHE	-	expression tag	UNP A0A2S5TB63
A	-3	GLU	-	expression tag	UNP A0A2S5TB63
A	-2	LYS	_	expression tag	UNP A0A2S5TB63
A	-1	GLY	-	expression tag	UNP A0A2S5TB63
A	0	ALA	-	expression tag	UNP A0A2S5TB63
В	-12	MET	_	initiating methionine	UNP A0A2S5TB63
В	-11	ALA	-	expression tag	UNP A0A2S5TB63
В	-10	SER	-	expression tag	UNP A0A2S5TB63
В	-9	TRP	-	expression tag	UNP A0A2S5TB63
В	-8	SER	-	expression tag	UNP A0A2S5TB63
В	-7	HIS	-	expression tag	UNP A0A2S5TB63
В	-6	PRO	-	expression tag	UNP A0A2S5TB63
В	-5	GLN	_	expression tag	UNP A0A2S5TB63
В	-4	PHE	-	expression tag	UNP A0A2S5TB63
В	-3	GLU	-	expression tag	UNP A0A2S5TB63
В	-2	LYS	-	expression tag	UNP A0A2S5TB63
В	-1	GLY	-	expression tag	UNP A0A2S5TB63

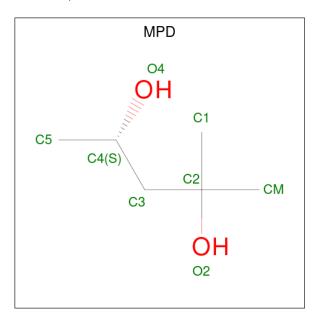
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Chain	Residue	Modelled	Actual	Comment	Reference
В	0	ALA	-	expression tag	UNP A0A2S5TB63

• Molecule 2 is (4S)-2-METHYL-2,4-PENTANEDIOL (three-letter code: MPD) (formula: $C_6H_{14}O_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 8 6 2	0	0
2	A	1	Total C O 8 6 2	0	0
2	A	1	Total C O 8 6 2	0	0
2	В	1	Total C O 8 6 2	0	0
2	В	1	Total C O 8 6 2	0	0
2	В	1	Total C O 8 6 2	0	0
2	В	1	Total C O 8 6 2	0	0

• Molecule 3 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	3	Total Na 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	В	2	Total Na 2 2	0	0

• Molecule 4 is water.

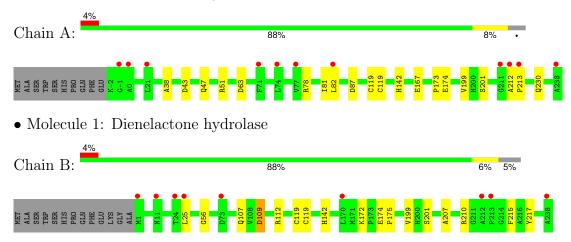
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	161	Total O 161 161	0	0
4	В	153	Total O 153 153	0	0



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: Dienelactone hydrolase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	40.14Å 87.83Å 71.42Å	Donositor
a, b, c, α , β , γ	90.00° 99.17° 90.00°	Depositor
Resolution (Å)	39.63 - 1.45	Depositor
rtesolution (A)	39.63 - 1.45	EDS
% Data completeness	99.7 (39.63-1.45)	Depositor
(in resolution range)	99.7 (39.63-1.45)	EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	3.57 (at 1.45Å)	Xtriage
Refinement program	PHENIX 1.20.1_4487	Depositor
D D.	0.158 , 0.186	Depositor
R, R_{free}	0.159 , 0.186	DCC
R_{free} test set	4393 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å ²)	15.1	Xtriage
Anisotropy	1.058	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34, 34.9	EDS
L-test for twinning ²	$ < L > = 0.48, < L^2> = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	4117	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 26.16 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 2.7743e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

²Theoretical values of <|L|>, $<L^2>$ 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: NA, CSD, MPD

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		nd lengths	Bond angles		
Moi Chain		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.77	1/1913 (0.1%)	0.88	$2/2593 \ (0.1\%)$	
1	В	0.76	2/1900 (0.1%)	0.84	1/2577 (0.0%)	
All	All	0.77	3/3813 (0.1%)	0.86	3/5170 (0.1%)	

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(ext{\AA})$
1	A	119[B]	CYS	CB-SG	-6.21	1.71	1.82
1	В	119[B]	CYS	CB-SG	-5.56	1.72	1.81
1	В	217	TYR	CE1-CZ	-5.20	1.31	1.38

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	A	87	ASP	CB-CG-OD1	5.47	123.22	118.30
1	A	63	ASP	CB-CG-OD1	5.36	123.13	118.30
1	В	109	ASP	CB-CG-OD2	-5.01	113.79	118.30

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	1878	0	1838	11	0
1	В	1864	0	1823	13	0
2	A	24	0	42	3	0
2	В	32	0	56	0	0
3	A	3	0	0	0	0
3	В	2	0	0	0	0
4	A	161	0	0	3	0
4	В	153	0	0	2	0
All	All	4117	0	3759	26	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 (26) 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:51:ARG:HG2	2:A:302:MPD:HM3	1.74	0.69
1:B:174:GLU:HG2	1:B:175:PRO:HD3	1.77	0.66
1:A:43:ASP:O	1:A:47:GLN:HG3	1.95	0.65
1:A:230:GLN:NE2	4:A:402:HOH:O	2.28	0.65
1:B:109:ASP:OD2	1:B:112:ARG:HD3	1.99	0.63
1:B:210:ARG:NH1	1:B:215:PHE:CD1	2.71	0.58
1:B:25:LEU:HD13	1:B:56:GLY:HA2	1.86	0.57
1:B:174:GLU:OE1	4:B:401:HOH:O	2.17	0.56
1:B:174:GLU:HG2	1:B:175:PRO:CD	2.37	0.54
1:B:107:GLN:HE21	1:B:107:GLN:HA	1.73	0.54
1:B:172:LYS:HB3	4:B:401:HOH:O	2.10	0.52
2:A:303:MPD:O4	2:A:303:MPD:O2	2.25	0.52
1:B:174:GLU:H	1:B:174:GLU:CD	2.17	0.48
1:A:173:PRO:HD2	4:A:401:HOH:O	2.14	0.47
1:A:38:ALA:HB1	1:A:81:ILE:HD11	1.98	0.46
1:B:107:GLN:HA	1:B:107:GLN:NE2	2.31	0.45
1:A:142:HIS:CE1	1:A:201[B]:SER:HA	2.52	0.45
1:B:142:HIS:CE1	1:B:201[A]:SER:HA	2.53	0.44
2:A:302:MPD:H53	4:A:536:HOH:O	2.17	0.43
1:A:174:GLU:H	1:A:174:GLU:CD	2.23	0.43
1:B:210:ARG:NH1	1:B:215:PHE:CE1	2.86	0.43
1:B:207:ALA:HA	1:B:210:ARG:HG3	2.02	0.42
1:A:167[B]:GLU:HB2	1:A:199:VAL:HG12	1.99	0.42
1:A:142:HIS:CE1	1:A:201[A]:SER:HA	2.54	0.42
1:A:78:ARG:HG3	1:A:82:LEU:HD23	2.01	0.41
1:A:212:ALA:HA	1:A:213:PRO:HD2	1.86	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	Perce	ntiles
1	A	243/252 (96%)	236 (97%)	7 (3%)	0	100	100
1	В	241/252 (96%)	235 (98%)	5 (2%)	1 (0%)	30	12
All	All	484/504 (96%)	471 (97%)	12 (2%)	1 (0%)	44	22

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	В	199	VAL

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	Perce	ntiles
1	A	181/185 (98%)	181 (100%)	0	100	100
1	В	181/185 (98%)	181 (100%)	0	100	100
All	All	362/370 (98%)	362 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:



Mol	Chain	Res	Type
1	A	47	GLN
1	A	230	GLN
1	В	26	GLN
1	В	107	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)

2 non-standard protein/DNA/RNA residues 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).

Mol	Trunc	Chain	n Res Link Bond lengths				Bond angles			
WIOI	Type	Chain	nes	Link	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	CSD	A	119[A]	1	4,7,8	1.36	1 (25%)	1,8,10	12.18	1 (100%)
1	CSD	В	119[A]	1	4,7,8	1.10	0	1,8,10	4.09	1 (100%)

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
1	CSD	A	119[A]	1	-	0/2/6/8	-
1	CSD	В	119[A]	1	-	2/2/6/8	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(ext{\AA})$
1	A	119[A]	CSD	OD1-SG	-2.50	1.45	1.47

All (2) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$Ideal(^{o})$
1	A	119[A]	CSD	OD1-SG-CB	12.18	128.03	105.60
1	В	119[A]	CSD	OD1-SG-CB	4.09	113.14	105.60

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	В	119[A]	CSD	CA-CB-SG-OD1
1	В	119[A]	CSD	N-CA-CB-SG

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 12 ligands modelled in this entry, 5 are monoatomic - leaving 7 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	Chain	Chain	Chain	Chain	Res	Link	В	Bond lengths			Bond angles		
WIOI	Type	rtes		LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2					
2	MPD	В	301	-	7,7,7	0.45	0	9,10,10	0.90	0					
2	MPD	В	302	-	7,7,7	0.38	0	9,10,10	0.87	0					
2	MPD	В	305	-	7,7,7	0.62	0	9,10,10	0.83	0					
2	MPD	В	306	_	7,7,7	0.43	0	9,10,10	0.39	0					
2	MPD	A	302	-	7,7,7	0.21	0	9,10,10	0.69	0					
2	MPD	A	301	_	7,7,7	0.48	0	9,10,10	0.70	0					
2	MPD	A	303	-	7,7,7	0.24	0	9,10,10	0.91	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	nο	outliers	$\circ f$	that	kind	were	identified.
	mound	110	Outilities	OI	ULLCUU	min	WCIC	identifica.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	MPD	В	301	-	-	2/5/5/5	-
2	MPD	В	302	-	-	0/5/5/5	-
2	MPD	В	305	-	-	3/5/5/5	-
2	MPD	В	306	-	-	1/5/5/5	=
2	MPD	A	302	-	-	3/5/5/5	-
2	MPD	A	301	-	-	0/5/5/5	-
2	MPD	A	303	-	-	1/5/5/5	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	302	MPD	CM-C2-C3-C4
2	В	305	MPD	CM-C2-C3-C4
2	A	302	MPD	C2-C3-C4-C5
2	В	305	MPD	C2-C3-C4-C5
2	В	301	MPD	O2-C2-C3-C4
2	A	303	MPD	C2-C3-C4-O4
2	A	302	MPD	C1-C2-C3-C4
2	В	301	MPD	CM-C2-C3-C4
2	В	305	MPD	C1-C2-C3-C4
2	В	306	MPD	CM-C2-C3-C4

There are no ring outliers.

2 monomers are involved in 3 short contacts:

\mathbf{Mol}	Chain	Res	Type	Clashes	Symm-Clashes
2	A	302	MPD	2	0
2	A	303	MPD	1	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 (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 $>$	$\# \mathrm{RSRZ}{>}2$	$OWAB(Å^2)$	Q < 0.9
1	A	$240/252 \ (95\%)$	0.10	11 (4%) 38 38	7, 20, 40, 59	5 (2%)
1	В	$237/252 \ (94\%)$	0.11	9 (3%) 44 45	6, 21, 41, 55	6 (2%)
All	All	477/504 (94%)	0.11	20 (4%) 41 42	6, 21, 41, 59	11 (2%)

All (20) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	212	ALA	4.9
1	В	213	PRO	3.7
1	A	212	ALA	3.5
1	A	211	GLY	3.3
1	В	170[A]	LEU	3.2
1	В	73	ASP	3.2
1	A	213	PRO	3.1
1	A	-1	GLY	2.8
1	A	238	ALA	2.7
1	A	82	LEU	2.7
1	В	24	THR	2.7
1	В	25	LEU	2.7
1	В	238	ALA	2.6
1	A	21[A]	LEU	2.3
1	A	74	LEU	2.2
1	A	0	ALA	2.2
1	A	71	PHE	2.2
1	A	77	VAL	2.1
1	В	1	MET	2.1
1	В	11[A]	ASN	2.0



6.2 Non-standard residues in protein, DNA, RNA chains (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	${f B-factors(\AA^2)}$	Q<0.9
1	CSD	В	119[A]	8/9	0.91	0.11	14,16,25,33	8
1	CSD	A	119[A]	8/9	0.93	0.08	16,17,22,25	8

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	$\operatorname{B-factors}({ ext{\AA}}^2)$	Q<0.9
2	MPD	В	305	8/8	0.73	0.20	35,37,55,62	0
2	MPD	В	306	8/8	0.77	0.16	37,41,51,71	0
2	MPD	A	302	8/8	0.82	0.15	32,34,39,48	0
2	MPD	В	302	8/8	0.82	0.14	28,33,41,42	0
2	MPD	A	301	8/8	0.86	0.13	25,28,33,37	0
2	MPD	A	303	8/8	0.87	0.14	26,32,44,66	0
2	MPD	В	301	8/8	0.89	0.12	28,29,31,32	0
3	NA	A	304	1/1	0.96	0.06	21,21,21,21	0
3	NA	A	305	1/1	0.96	0.06	22,22,22,22	0
3	NA	A	306	1/1	0.96	0.11	27,27,27,27	0
3	NA	В	303	1/1	0.97	0.08	22,22,22,22	0
3	NA	В	304	1/1	0.98	0.05	27,27,27,27	0

6.5 Other polymers (i)

There are no such residues in this entry.

