

Full wwPDB X-ray Structure Validation Report (i)

Dec 2, 2024 – 11:31 AM EST

PDB ID : 2E3V

Title : Crystal structure of the first fibronectin type III domain of neural cell adhesion

molecule splicing isoform from human muscle culture lambda-4.4

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Deposited on : 2006-11-30

Resolution : 1.95 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)

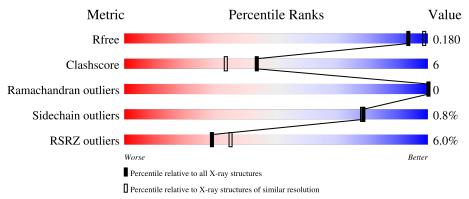
Validation Pipeline (wwPDB-VP) : 2.40

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 1.95 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 $(\# \mathrm{Entries})$	Similar resolution $(\#\text{Entries, resolution range}(\mathring{\mathbf{A}}))$
R_{free}	164625	3187 (1.96-1.96)
Clashscore	180529	3412 (1.96-1.96)
Ramachandran outliers	177936	3390 (1.96-1.96)
Sidechain outliers	177891	3390 (1.96-1.96)
RSRZ outliers	164620	3186 (1.96-1.96)

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%

Mol	Chain	Length	Quality of chain		
1	A	122	7% 80%		5% 16%
1	В	122	68%	11%	20%
1	С	122	7% 75%	8%	s 17%

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	PEG	A	1004	-	-	X	-



2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 2587 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 Neural cell adhesion molecule 1, 140 kDa isoform.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Λ	A 103	Total	С	N	О	Se	0	1	0
1	Λ	105	787	499	128	159	1	0	1	
1	D	97	Total	С	N	О	Se	0	2 0	0
1	Б	91	746	477	119	149	1	0	<i>Z</i>	U
1	С	101	Total	С	N	О	Se	0	1	0
	101	756	481	123	151	1	0	1	U	

There are 45 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	3	GLY	-	expression tag	UNP P13591
A	4	SER	-	expression tag	UNP P13591
A	5	SER	-	expression tag	UNP P13591
A	6	GLY	-	expression tag	UNP P13591
A	7	SER	-	expression tag	UNP P13591
A	8	SER	-	expression tag	UNP P13591
A	9	GLY	-	expression tag	UNP P13591
A	109	ARG	GLN	SEE REMARK 999	UNP P13591
A	109	ARG	GLY	SEE REMARK 999	UNP P13591
A	119	SER	-	expression tag	UNP P13591
A	120	GLY	-	expression tag	UNP P13591
A	121	PRO	-	expression tag	UNP P13591
A	122	SER	-	expression tag	UNP P13591
A	123	SER	-	expression tag	UNP P13591
A	124	GLY	-	expression tag	UNP P13591
В	3	GLY	-	expression tag	UNP P13591
В	4	SER	-	expression tag	UNP P13591
В	5	SER	-	expression tag	UNP P13591
В	6	GLY	=	expression tag	UNP P13591
В	7	SER	=	expression tag	UNP P13591
В	8	SER	=	expression tag	UNP P13591
В	9	GLY	-	expression tag	UNP P13591
В	109	ARG	GLN	SEE REMARK 999	UNP P13591

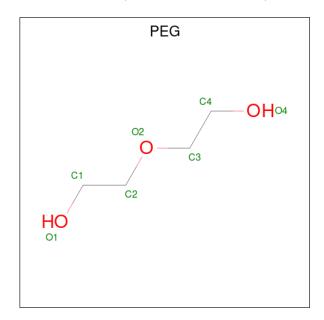
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Chain	Residue	Modelled	Actual	Comment	Reference
В	109	ARG	GLY	SEE REMARK 999	UNP P13591
В	119	SER	-	expression tag	UNP P13591
В	120	GLY	-	expression tag	UNP P13591
В	121	PRO	-	expression tag	UNP P13591
В	122	SER	-	expression tag	UNP P13591
В	123	SER	-	expression tag	UNP P13591
В	124	GLY	-	expression tag	UNP P13591
С	3	GLY	-	expression tag	UNP P13591
С	4	SER	-	expression tag	UNP P13591
С	5	SER	_	expression tag	UNP P13591
С	6	GLY	-	expression tag	UNP P13591
С	7	SER	-	expression tag	UNP P13591
С	8	SER	-	expression tag	UNP P13591
С	9	GLY	-	expression tag	UNP P13591
С	109	ARG	GLN	SEE REMARK 999	UNP P13591
С	109	ARG	GLY	SEE REMARK 999	UNP P13591
С	119	SER	-	expression tag	UNP P13591
С	120	GLY	-	expression tag	UNP P13591
С	121	PRO	-	expression tag	UNP P13591
С	122	SER	-	expression tag	UNP P13591
С	123	SER	-	expression tag	UNP P13591
С	124	GLY	-	expression tag	UNP P13591

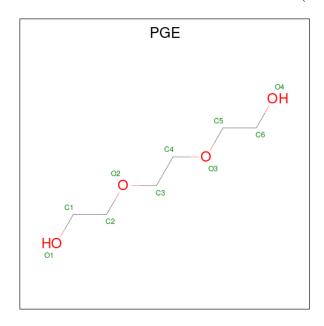
 $\bullet \ \ Molecule\ 2\ is\ DI(HYDROXYETHYL)ETHER\ (three-letter\ code:\ PEG)\ (formula:\ C_4H_{10}O_3).$





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 7 4 3	0	0
2	В	1	Total C O 7 4 3	0	0
2	С	1	Total C O 7 4 3	0	0

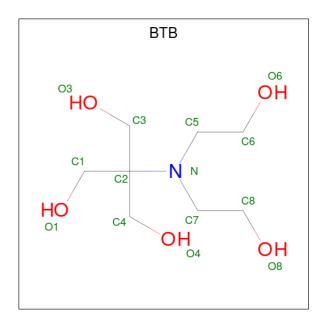
• Molecule 3 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: $C_6H_{14}O_4$).



\mathbf{M}	ol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	3	В	1	Total C O 10 6 4	0	0
3	3	В	1	Total C O 10 6 4	0	0

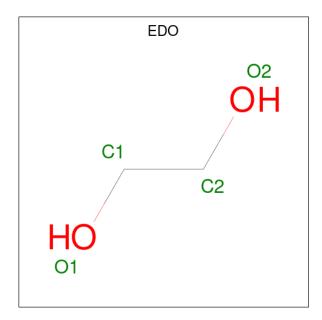
• Molecule 4 is 2-[BIS-(2-HYDROXY-ETHYL)-AMINO]-2-HYDROXYMETHYL-PROPAN E-1,3-DIOL (three-letter code: BTB) (formula: $C_8H_{19}NO_5$).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	В	1	Total C N O 10 6 1 3	0	0
4	С	1	Total C N O 10 6 1 3	0	0

 \bullet Molecule 5 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $\mathrm{C_2H_6O_2}).$



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	С	1	Total C C 4 2 2) !	0	0

• Molecule 6 is water.



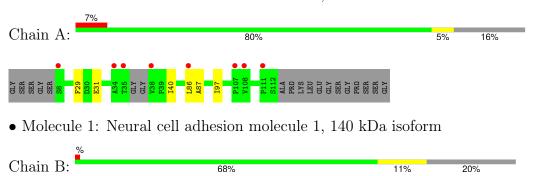
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	92	Total O 92 92	0	0
6	В	84	Total O 84 84	0	0
6	С	57	Total O 57 57	0	0



3 Residue-property plots (i)

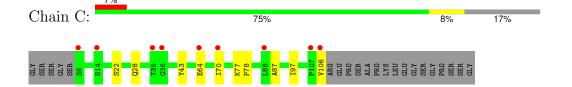
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded 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. 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: Neural cell adhesion molecule 1, 140 kDa isoform





• Molecule 1: Neural cell adhesion molecule 1, 140 kDa isoform





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 31	Depositor
Cell constants	55.38Å 55.38Å 118.83Å	D t
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	30.00 - 1.95	Depositor
Resolution (A)	30.00 - 1.95	EDS
% Data completeness	98.5 (30.00-1.95)	Depositor
(in resolution range)	98.5 (30.00-1.95)	EDS
R_{merge}	(Not available)	Depositor
R_{sum}	0.07	Depositor
$< I/\sigma(I) > 1$	3.32 (at 1.95Å)	Xtriage
Refinement program	REFMAC 5.2.0005	Depositor
R, R_{free}	0.182 , 0.211	Depositor
it, it free	0.180 , 0.180	DCC
R_{free} test set	1488 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å ²)	36.2	Xtriage
Anisotropy	0.050	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34 , 44.1	EDS
L-test for twinning ²	$< L > = 0.50, < L^2> = 0.33$	Xtriage
	0.007 for -h,-k,l	
Estimated twinning fraction	0.046 for h,-h-k,-l	Xtriage
	0.028 for -k,-h,-l	
F_o, F_c correlation	0.95	EDS
Total number of atoms	2587	wwPDB-VP
Average B, all atoms (\mathring{A}^2)	41.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.38% of the height of the origin peak. No significant pseudotranslation is detected.

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: BTB, EDO, PEG, PGE

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		
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.41	0/811	0.59	0/1104	
1	В	0.46	0/773	0.59	0/1051	
1	С	0.40	0/778	0.57	0/1058	
All	All	0.42	0/2362	0.59	0/3213	

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	A	787	0	753	5	0
1	В	746	0	721	15	0
1	С	756	0	728	8	0
2	A	7	0	10	4	0
2	В	7	0	10	3	0
2	С	7	0	10	0	0
3	В	20	0	28	4	0
4	В	10	0	13	0	0
4	С	10	0	13	1	0
5	C	4	0	6	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	A	92	0	0	1	0
6	В	84	0	0	0	0
6	С	57	0	0	0	0
All	All	2587	0	2292	28	0

The all-atom clash score is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clash score for this structure is 6.

All (28) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

A 4 1	A 4 0	Interatomic	Clash
Atom-1	Atom-2	${\rm distance} \ (\mathring{\rm A})$	overlap (Å)
1:B:28:GLN:HG3	1:B:70[B]:ILE:HG12	1.55	0.88
1:B:80:THR:HG23	3:B:1007:PGE:H4	1.63	0.78
1:B:28:GLN:CG	1:B:70[B]:ILE:HG12	2.19	0.72
1:B:49:ALA:HB3	1:B:52:GLU:HG3	1.72	0.72
1:C:28:GLN:CG	1:C:70:ILE:HG12	2.22	0.69
1:B:32:PRO:HA	1:C:64:GLU:OE1	1.93	0.69
1:B:51:GLY:H	3:B:1007:PGE:H3	1.56	0.68
1:A:29:PHE:CE1	2:A:1004:PEG:H11	2.31	0.66
1:C:28:GLN:HG3	1:C:70:ILE:HG12	1.79	0.62
1:B:100:ALA:HB3	3:B:1006:PGE:H3	1.82	0.60
1:C:43:TYR:OH	4:C:1008:BTB:H81	2.05	0.56
1:C:28:GLN:HG2	1:C:70:ILE:HG12	1.87	0.56
2:A:1004:PEG:H32	6:A:1049:HOH:O	2.09	0.53
1:B:41:LEU:HD13	2:B:1005:PEG:H31	1.92	0.52
1:A:31:GLU:HB3	2:A:1004:PEG:H12	1.92	0.52
1:A:29:PHE:HE1	2:A:1004:PEG:H11	1.73	0.52
1:B:28:GLN:HG3	1:B:70[B]:ILE:CG1	2.36	0.51
1:B:26:GLN:HB3	1:B:70[A]:ILE:HD11	1.91	0.50
1:B:87:ALA:HB2	1:B:97:ILE:HD12	1.92	0.50
1:B:41:LEU:HD13	2:B:1005:PEG:H22	1.94	0.49
1:A:31:GLU:HG2	1:A:40:ILE:CD1	2.43	0.49
1:B:28:GLN:CG	1:B:70[B]:ILE:CG1	2.90	0.48
1:B:102:GLU:HG3	3:B:1006:PGE:H6	1.94	0.48
1:C:22:SER:HB2	1:C:108:VAL:HG22	1.94	0.47
1:A:87:ALA:HB2	1:A:97:ILE:HD12	1.97	0.46
1:C:87:ALA:HB2	1:C:97:ILE:HD12	1.98	0.45
1:B:41:LEU:CD1	2:B:1005:PEG:H22	2.51	0.41
1:C:77:LYS:HA	1:C:78:PRO:HD3	1.95	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	entiles
1	A	100/122~(82%)	98 (98%)	2 (2%)	0	100	100
1	В	95/122 (78%)	93 (98%)	2 (2%)	0	100	100
1	С	100/122 (82%)	98 (98%)	2 (2%)	0	100	100
All	All	295/366 (81%)	289 (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	A	84/95 (88%)	83 (99%)	1 (1%)	67 65
1	В	80/95 (84%)	79 (99%)	1 (1%)	65 62
1	С	79/95 (83%)	79 (100%)	0	100 100
All	All	$243/285 \ (85\%)$	241 (99%)	2 (1%)	79 78

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

Mol	Chain	Res	Type
1	A	86	LEU
1	В	63	LYS

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	28	GLN
1	В	26	GLN
1	В	28	GLN
1	С	26	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 oligosaccharides in this entry.

5.6 Ligand geometry (i)

8 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).

Mol	Type	Chain	Res	Link	В	Bond lengths			Bond angles		
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
4	ВТВ	В	1009	-	9,9,13	0.34	0	9,9,16	2.16	3 (33%)	
3	PGE	В	1006	-	9,9,9	0.51	0	8,8,8	0.43	0	
3	PGE	В	1007	-	9,9,9	0.50	0	8,8,8	0.19	0	
2	PEG	В	1005	-	6,6,6	0.48	0	5,5,5	0.22	0	
2	PEG	A	1004	-	6,6,6	0.53	0	5,5,5	0.39	0	
2	PEG	С	1003	-	6,6,6	0.45	0	5,5,5	0.26	0	
4	ВТВ	С	1008	-	9,9,13	0.45	0	9,9,16	2.31	3 (33%)	
5	EDO	С	1001	-	3,3,3	0.42	0	2,2,2	0.39	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
4	BTB	В	1009	-	-	3/9/9/21	-
3	PGE	В	1006	-	-	3/7/7/7	-
3	PGE	В	1007	-	-	5/7/7/7	-
2	PEG	В	1005	-	-	4/4/4/4	-
2	PEG	A	1004	-	-	2/4/4/4	-
2	PEG	С	1003	-	-	2/4/4/4	-
4	BTB	С	1008	-	-	3/9/9/21	-
5	EDO	С	1001	-	-	1/1/1/1	-

There are no bond length outliers.

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
4	С	1008	BTB	C7-N-C2	4.18	121.39	111.44
4	С	1008	BTB	C5-N-C2	3.79	120.46	111.44
4	В	1009	BTB	C7-N-C5	3.76	120.39	111.44
4	В	1009	BTB	C5-N-C2	3.68	120.19	111.44
4	В	1009	BTB	C7-N-C2	3.31	119.33	111.44
4	С	1008	BTB	C7-N-C5	2.82	118.15	111.44

There are no chirality outliers.

All (23) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	В	1005	PEG	O1-C1-C2-O2
3	В	1006	PGE	O3-C5-C6-O4
4	В	1009	BTB	N-C2-C3-O3
4	С	1008	BTB	N-C5-C6-O6
3	В	1007	PGE	O3-C5-C6-O4
3	В	1007	PGE	O1-C1-C2-O2
2	С	1003	PEG	O2-C3-C4-O4
3	В	1006	PGE	O2-C3-C4-O3
2	A	1004	PEG	C1-C2-O2-C3
2	В	1005	PEG	O2-C3-C4-O4
2	С	1003	PEG	C4-C3-O2-C2
3	В	1007	PGE	C1-C2-O2-C3
4	В	1009	BTB	C6-C5-N-C2

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Mol	Chain	Res	Type	Atoms
3	В	1007	PGE	C4-C3-O2-C2
4	С	1008	BTB	C8-C7-N-C2
3	В	1006	PGE	C3-C4-O3-C5
2	A	1004	PEG	C4-C3-O2-C2
5	С	1001	EDO	O1-C1-C2-O2
4	В	1009	BTB	C3-C2-N-C5
2	В	1005	PEG	C1-C2-O2-C3
2	В	1005	PEG	C4-C3-O2-C2
3	В	1007	PGE	C3-C4-O3-C5
4	С	1008	BTB	C6-C5-N-C7

There are no ring outliers.

5 monomers are involved in 12 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	В	1006	PGE	2	0
3	В	1007	PGE	2	0
2	В	1005	PEG	3	0
2	A	1004	PEG	4	0
4	С	1008	BTB	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)

Warning: The R factor obtained from EDS is 0.2468, which does not match the depositor's R factor of 0.182. Please interpret the results in this section carefully.

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 $>$	$\# \mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	102/122~(83%)	0.54	8 (7%) 20 25	29, 37, 43, 53	1 (0%)
1	В	96/122 (78%)	0.51	1 (1%) 79 83	27, 38, 42, 47	2 (2%)
1	С	100/122 (81%)	0.86	9 (9%) 17 21	33, 44, 53, 55	1 (1%)
All	All	298/366 (81%)	0.64	18 (6%) 29 35	27, 38, 49, 55	4 (1%)

All (18) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	С	108	VAL	4.5
1	A	34	ALA	4.0
1	A	35	THR	3.5
1	A	108	VAL	3.1
1	С	107	PRO	2.7
1	A	107	PRO	2.7
1	С	64	GLU	2.6
1	A	86	LEU	2.6
1	В	33	GLU	2.6
1	С	35	THR	2.5
1	С	70	ILE	2.5
1	A	8	SER	2.3
1	С	36	GLY	2.2
1	A	38	VAL	2.2
1	С	86	LEU	2.2
1	С	8	SER	2.1
1	A	111	PRO	2.0
1	С	14	SER	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, 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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
3	PGE	В	1006	10/10	0.62	0.26	66,69,70,71	0
2	PEG	A	1004	7/7	0.66	0.24	47,51,54,54	0
4	BTB	В	1009	10/14	0.68	0.23	57,59,60,60	0
3	PGE	В	1007	10/10	0.72	0.21	67,67,69,69	0
4	BTB	С	1008	10/14	0.73	0.19	61,62,62,63	0
2	PEG	В	1005	7/7	0.75	0.17	64,65,66,66	0
2	PEG	С	1003	7/7	0.77	0.20	71,71,71,72	0
5	EDO	С	1001	4/4	0.77	0.21	69,70,70,70	0

6.5 Other polymers (i)

There are no such residues in this entry.

