



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 15, 2017 – 08:47 PM EDT

PDB ID : 3BZ8  
Title : Crystal Structures of (S)-(-)-Blebbistatin Analogs bound to Dictyostelium discoideum myosin II  
Authors : Allingham, J.S.; Rayment, I.  
Deposited on : unknown  
Resolution : 2.20 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](mailto:validation@mail.wwpdb.org)

A user guide is available at

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.7.2 (RC1), CSD as538be (2017)  
Xtriage (Phenix) : 1.9-1692  
EDS : rb-20030345  
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)  
Refmac : 5.8.0135  
CCP4 : 6.5.0  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : rb-20030345

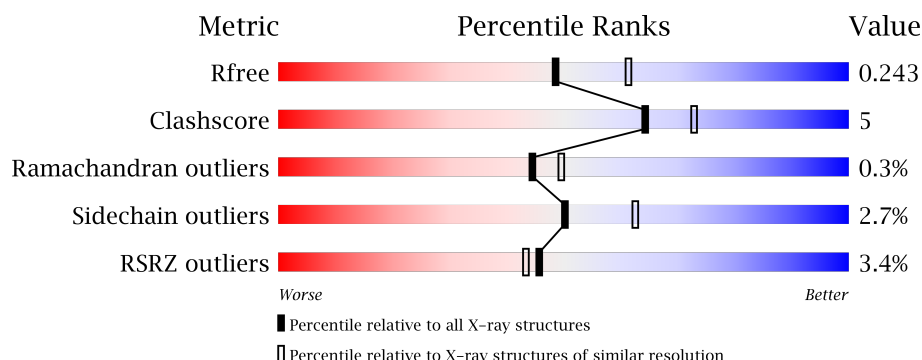
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 2.20 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))
$R_{free}$	100719	4002 (2.20-2.20)
Clashscore	112137	4730 (2.20-2.20)
Ramachandran outliers	110173	4656 (2.20-2.20)
Sidechain outliers	110143	4657 (2.20-2.20)
RSRZ outliers	101464	4033 (2.20-2.20)

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 on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. 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	762	<div> <div>3%</div> <div>80%</div> <div>11%</div> <div>8%</div> </div>

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
5	EDO	A	1001	-	-	-	X

## 2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 6184 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 Myosin-2 heavy chain, non muscle.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	703	Total	C	N	O	S	0	10	0
			5528	3531	935	1046	16			

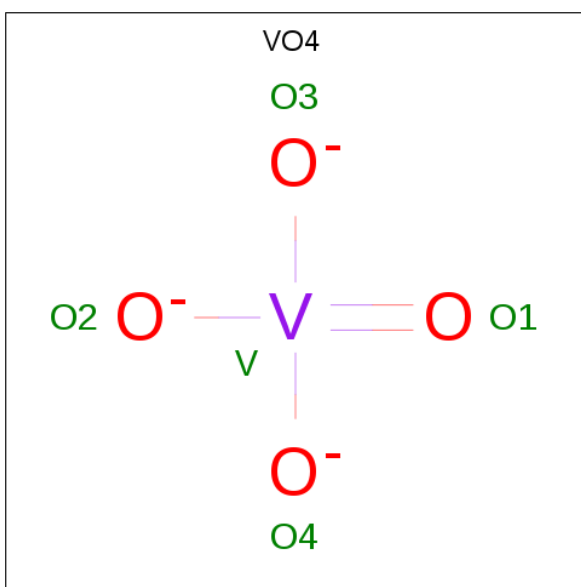
There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	EXPRESSION TAG	UNP P08799
A	760	LEU	-	SEE REMARK 999	UNP P08799
A	761	PRO	-	SEE REMARK 999	UNP P08799
A	762	ASN	-	SEE REMARK 999	UNP P08799

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total	Mg	0	0
			2	2		

- Molecule 3 is VANADATE ION (three-letter code: VO4) (formula: O<sub>4</sub>V).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	V	0	0
			5	4	1		

- Molecule 4 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula:  $C_{10}H_{15}N_5O_{10}P_2$ ).



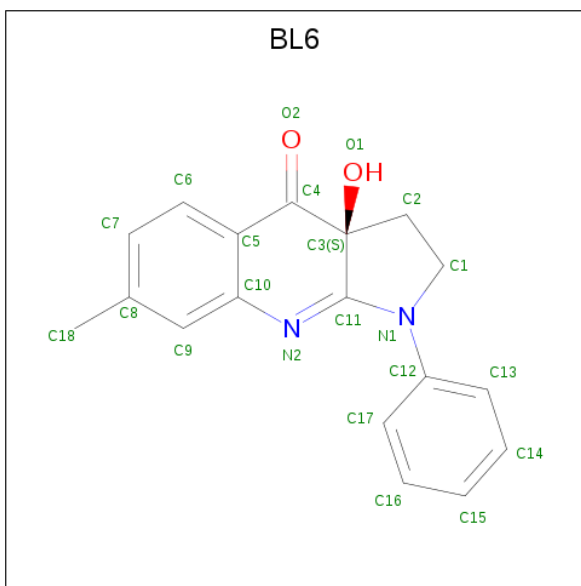
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	N	O	P	
			27	10	5	10	2	

- Molecule 5 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula:  $C_2H_6O_2$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			4	2	2		

- Molecule 6 is (3aS)-3a-hydroxy-7-methyl-1-phenyl-1,2,3,3a-tetrahydro-4H-pyrrolo[2,3-b]quinolin-4-one (three-letter code: BL6) (formula:  $C_{18}H_{16}N_2O_2$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	A	1	Total	C	N	O	0	0
			22	18	2	2		

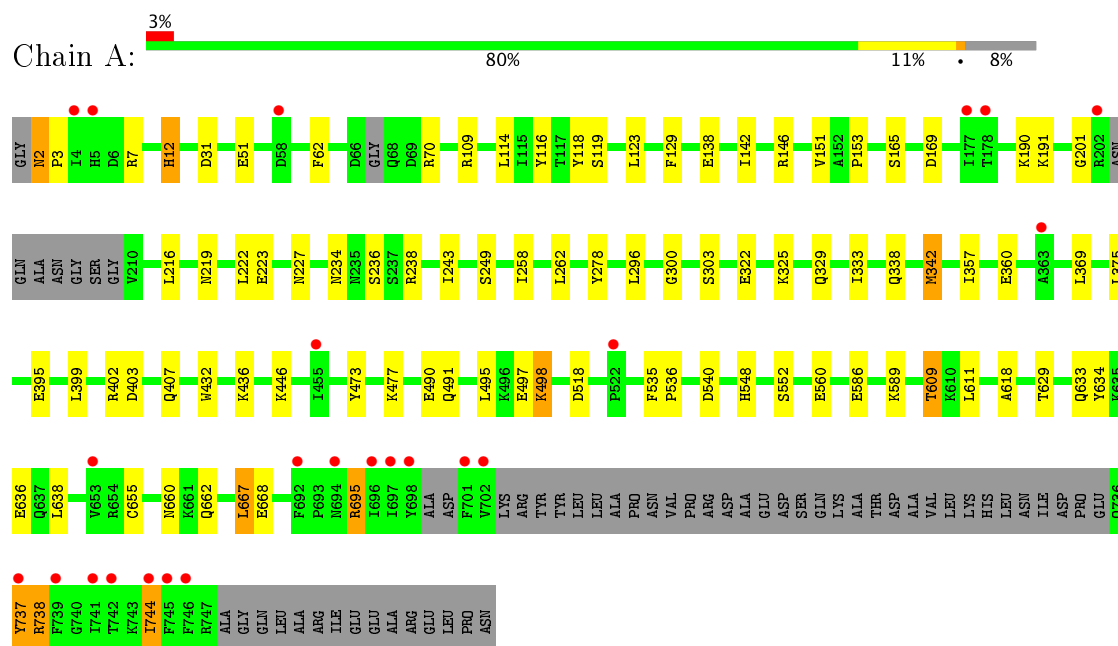
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	596	Total 596	O 596	0	0

### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: Myosin-2 heavy chain, non muscle



## 4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	88.01Å 147.77Å 153.39Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 2.20 37.50 – 2.20	Depositor EDS
% Data completeness (in resolution range)	99.1 (50.00-2.20) 99.1 (37.50-2.20)	Depositor EDS
$R_{merge}$	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	4.67 (at 2.20Å)	Xtriage
Refinement program	REFMAC	Depositor
R, $R_{free}$	0.192 , 0.245 0.190 , 0.243	Depositor DCC
$R_{free}$ test set	2569 reflections (5.35%)	DCC
Wilson B-factor (Å <sup>2</sup> )	31.3	Xtriage
Anisotropy	0.727	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.32 , 52.0	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.012 for 1/2*h-1/2*k,-3/2*h-1/2*k,-l 0.022 for 1/2*h+1/2*k,3/2*h-1/2*k,-l	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	6184	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	35.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.96% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<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.



## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: VO4, MG, BL6, EDO, ADP

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	1.03	6/5642 (0.1%)	0.87	5/7624 (0.1%)

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	560	GLU	CB-CG	5.76	1.63	1.52
1	A	636	GLU	CG-CD	5.59	1.60	1.51
1	A	655	CYS	CB-SG	-5.30	1.73	1.81
1	A	586	GLU	CG-CD	5.21	1.59	1.51
1	A	129	PHE	CE2-CZ	5.10	1.47	1.37
1	A	278	TYR	CD1-CE1	-5.05	1.31	1.39

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	667	LEU	CB-CG-CD1	7.14	123.15	111.00
1	A	70	ARG	NE-CZ-NH2	-7.07	116.76	120.30
1	A	402	ARG	NE-CZ-NH2	-7.03	116.78	120.30
1	A	540	ASP	CB-CG-OD1	6.26	123.94	118.30
1	A	238	ARG	NE-CZ-NH1	-5.06	117.77	120.30

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	5528	0	5258	52	0
2	A	2	0	0	0	0
3	A	5	0	0	0	0
4	A	27	0	12	0	0
5	A	4	0	6	0	0
6	A	22	0	16	3	0
7	A	596	0	0	8	1
All	All	6184	0	5292	52	1

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 5.

All (52) 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:473:TYR:OH	1:A:518[B]:ASP:OD2	1.76	1.03
1:A:668:GLU:OE1	7:A:1206:HOH:O	1.80	0.98
1:A:201:GLY:O	7:A:1420:HOH:O	2.05	0.73
1:A:138:GLU:O	1:A:142:ILE:HG13	1.96	0.66
1:A:737:TYR:O	1:A:738:ARG:HD3	1.95	0.66
1:A:629:THR:O	1:A:633:GLN:HG3	2.00	0.60
1:A:234:ASN:H	1:A:662:GLN:HE22	1.50	0.60
1:A:296:LEU:HD11	1:A:342:MET:HE3	1.83	0.59
1:A:432:TRP:CZ2	1:A:436:LYS:HE2	2.38	0.58
1:A:638:LEU:HB2	6:A:800:BL6:H18B	1.85	0.58
1:A:609:THR:HG23	7:A:1146:HOH:O	2.03	0.57
1:A:138:GLU:OE2	1:A:138:GLU:N	2.33	0.56
1:A:589[A]:LYS:NZ	7:A:1448:HOH:O	2.35	0.55
1:A:660[B]:ASN:OD1	7:A:1206:HOH:O	2.18	0.54
1:A:243:ILE:HD13	1:A:258:ILE:HG12	1.90	0.54
1:A:262:LEU:O	6:A:800:BL6:H1	2.09	0.53
1:A:634:TYR:CD1	6:A:800:BL6:H9	2.44	0.52
1:A:329:GLN:O	1:A:333:ILE:HG13	2.10	0.52
1:A:737:TYR:C	1:A:738:ARG:HG2	2.32	0.51
1:A:165:SER:O	1:A:169:ASP:HB2	2.11	0.50
1:A:116:TYR:HB3	1:A:123:LEU:HD11	1.94	0.49
1:A:357:ILE:HG23	1:A:369:LEU:HD11	1.93	0.49
1:A:234:ASN:ND2	7:A:1048:HOH:O	2.47	0.47
1:A:322:GLU:OE1	1:A:325:LYS:NZ	2.48	0.47
1:A:325:LYS:HG3	7:A:1595:HOH:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:219:ASN:ND2	1:A:223:GLU:OE2	2.48	0.47
1:A:395:GLU:HA	1:A:407:GLN:O	2.15	0.46
1:A:399:LEU:HA	1:A:403:ASP:O	2.16	0.46
1:A:497:GLU:O	1:A:498:LYS:C	2.54	0.45
1:A:369:LEU:HD23	1:A:375:LEU:HD22	1.99	0.45
1:A:243:ILE:CD1	1:A:258:ILE:HG12	2.46	0.45
1:A:300:GLY:O	1:A:303:SER:HB2	2.17	0.45
1:A:490:GLU:OE1	1:A:490:GLU:HA	2.17	0.45
1:A:7:ARG:HA	1:A:12:HIS:CG	2.51	0.44
1:A:191:LYS:HA	1:A:191:LYS:HD3	1.80	0.44
1:A:695:ARG:HA	1:A:744:ILE:O	2.17	0.43
1:A:51:GLU:O	1:A:62:PHE:HA	2.19	0.43
1:A:146:ARG:HD2	1:A:146:ARG:HA	1.90	0.42
1:A:548:HIS:O	1:A:552:SER:HB3	2.19	0.42
1:A:491:GLN:O	1:A:495:LEU:HD13	2.20	0.42
1:A:31:ASP:CB	7:A:1465:HOH:O	2.67	0.42
1:A:477:LYS:HE2	1:A:638:LEU:HD21	2.01	0.42
1:A:2:ASN:HD22	1:A:3:PRO:HD2	1.85	0.42
1:A:234:ASN:H	1:A:662:GLN:NE2	2.17	0.42
1:A:611:LEU:O	1:A:618:ALA:HB2	2.19	0.42
1:A:535:PHE:HA	1:A:536:PRO:HD3	1.95	0.41
1:A:227:ASN:HA	1:A:236:SER:O	2.21	0.41
1:A:737:TYR:O	1:A:738:ARG:CD	2.67	0.41
1:A:118:TYR:CD2	1:A:153:PRO:HG3	2.56	0.41
1:A:222:LEU:HD23	1:A:222:LEU:HA	1.95	0.41
1:A:190:LYS:HD3	1:A:219:ASN:ND2	2.35	0.41
1:A:109:ARG:HB3	1:A:114:LEU:HB2	2.02	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A:1444:HOH:O	7:A:1444:HOH:O[3_655]	2.10	0.10

## 5.3 Torsion angles

### 5.3.1 Protein backbone

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	698/762 (92%)	677 (97%)	19 (3%)	2 (0%)	44 49

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	498	LYS
1	A	737	TYR

### 5.3.2 Protein sidechains ⓘ

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	565/665 (85%)	550 (97%)	15 (3%)	50 62

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	2	ASN
1	A	12	HIS
1	A	119	SER
1	A	151	VAL
1	A	216	LEU
1	A	249	SER
1	A	338	GLN
1	A	342	MET
1	A	360	GLU
1	A	446	LYS
1	A	609	THR
1	A	667	LEU
1	A	695	ARG
1	A	738	ARG
1	A	744	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	2	ASN
1	A	188	ASN
1	A	219	ASN
1	A	234	ASN
1	A	283	GLN
1	A	338	GLN
1	A	407	GLN
1	A	532	GLN
1	A	662	GLN
1	A	694	ASN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

## 5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

## 5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

## 5.6 Ligand geometry ⓘ

Of 6 ligands modelled in this entry, 2 are monoatomic - leaving 4 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	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
4	ADP	A	1000	2	25,29,29	1.36	4 (16%)	24,45,45	2.18	5 (20%)
5	EDO	A	1001	-	3,3,3	0.50	0	2,2,2	0.53	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
6	BL6	A	800	-	23,25,25	2.26	6 (26%)	26,38,38	1.40	4 (15%)
3	VO4	A	998	2	1,4,4	1.71	0	0,6,6	0.00	-

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	ADP	A	1000	2	-	0/12/32/32	0/3/3/3
5	EDO	A	1001	-	-	0/1/1/1	0/0/0/0
6	BL6	A	800	-	-	0/4/34/34	0/3/4/4
3	VO4	A	998	2	-	0/0/0/0	0/0/0/0

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A	800	BL6	C17-C12	2.22	1.43	1.39
6	A	800	BL6	C2-C1	2.34	1.57	1.52
4	A	1000	ADP	PB-O3A	2.43	1.64	1.60
6	A	800	BL6	C1-N1	2.51	1.51	1.47
4	A	1000	ADP	C5-C4	2.68	1.46	1.40
4	A	1000	ADP	C4-N3	2.79	1.39	1.35
6	A	800	BL6	C5-C10	3.17	1.44	1.40
4	A	1000	ADP	O4'-C1'	3.39	1.46	1.41
6	A	800	BL6	O1-C3	4.10	1.49	1.42
6	A	800	BL6	C11-N2	6.83	1.36	1.29

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	1000	ADP	N3-C2-N1	-7.94	121.94	128.86
4	A	1000	ADP	O2'-C2'-C1'	-2.68	103.24	111.61
6	A	800	BL6	C18-C8-C9	-2.57	117.16	120.94
6	A	800	BL6	C1-N1-C11	-2.30	109.57	112.83
4	A	1000	ADP	C1'-N9-C4	-2.29	122.68	126.64
6	A	800	BL6	C10-C9-C8	-2.10	117.96	121.42
4	A	1000	ADP	N6-C6-N1	2.41	123.54	118.77
6	A	800	BL6	C7-C8-C9	3.41	123.25	117.93
4	A	1000	ADP	C2-N1-C6	4.19	126.10	118.77

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	A	800	BL6	3	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 ⓘ

### 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	703/762 (92%)	-0.12	24 (3%) 46 43	17, 33, 58, 83	20 (2%)

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	698	TYR	5.2
1	A	746	PHE	5.2
1	A	702	VAL	5.1
1	A	744	ILE	4.3
1	A	202	ARG	3.5
1	A	737	TYR	3.5
1	A	745	PHE	3.4
1	A	692	PHE	3.3
1	A	5	HIS	3.0
1	A	742	THR	2.9
1	A	177	ILE	2.7
1	A	178	THR	2.5
1	A	455	ILE	2.5
1	A	363	ALA	2.5
1	A	696	ILE	2.4
1	A	701	PHE	2.4
1	A	4	ILE	2.3
1	A	653	VAL	2.2
1	A	739	PHE	2.1
1	A	697	ILE	2.1
1	A	741	ILE	2.1
1	A	58	ASP	2.1
1	A	522	PRO	2.0
1	A	694	ASN	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 carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95<sup>th</sup> 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	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
5	EDO	A	1001	4/4	0.94	0.17	2.71	50,52,52,53	0
2	MG	A	997	1/1	0.99	0.22	0.60	23,23,23,23	0
6	BL6	A	800	22/22	0.81	0.20	0.24	26,36,38,38	0
3	VO4	A	998	5/5	1.00	0.17	-0.57	17,20,22,24	0
4	ADP	A	1000	27/27	0.98	0.12	-0.69	17,23,27,30	0
2	MG	A	999	1/1	0.96	0.13	-	32,32,32,32	1

## 6.5 Other polymers [i](#)

There are no such residues in this entry.