



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 13, 2023 – 03:25 PM JST

PDB ID : 5XIS
Title : Crystal structure of RNF168 UDM1 in complex with Lys63-linked diubiquitin, form I
Authors : Takahashi, T.S.; Sato, Y.; Fukai, S.
Deposited on : 2017-04-27
Resolution : 1.78 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
Mogul : 1.8.5 (274361), CSD as541be (2020)
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

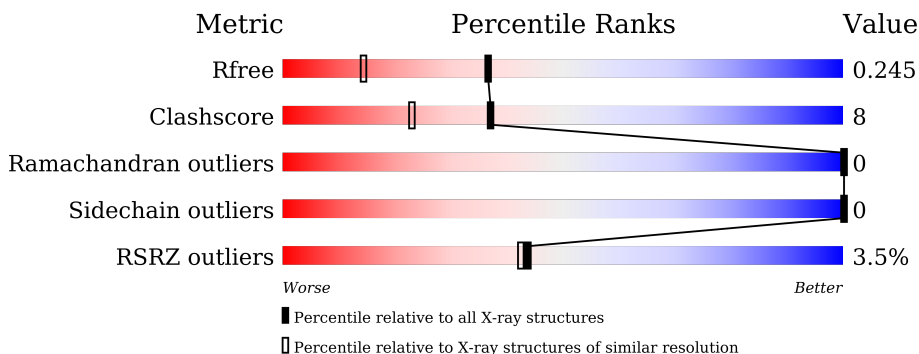
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.78 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	9185 (1.80-1.76)
Clashscore	141614	10184 (1.80-1.76)
Ramachandran outliers	138981	10051 (1.80-1.76)
Sidechain outliers	138945	10050 (1.80-1.76)
RSRZ outliers	127900	9032 (1.80-1.76)

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	84	
1	D	84	
2	B	77	
2	E	77	
3	C	76	
3	F	76	

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
4	XYZ	D	201	-	-	-	X

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 4048 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 E3 ubiquitin-protein ligase RNF168.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	79	Total 661	C 395	N 122	O 143	S 1	0	0	0
1	D	82	Total 691	C 413	N 130	O 146	S 2	0	1	0

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	105	GLY	-	expression tag	UNP Q8IYW5
A	106	PRO	-	expression tag	UNP Q8IYW5
A	107	GLY	-	expression tag	UNP Q8IYW5
A	108	HIS	-	expression tag	UNP Q8IYW5
A	109	MET	-	expression tag	UNP Q8IYW5
D	105	GLY	-	expression tag	UNP Q8IYW5
D	106	PRO	-	expression tag	UNP Q8IYW5
D	107	GLY	-	expression tag	UNP Q8IYW5
D	108	HIS	-	expression tag	UNP Q8IYW5
D	109	MET	-	expression tag	UNP Q8IYW5

- Molecule 2 is a protein called Ubiquitin-40S ribosomal protein S27a.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	72	Total 574	C 362	N 98	O 113	S 1	0	0	0
2	E	73	Total 582	C 368	N 99	O 114	S 1	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	77	ASP	-	see sequence details	UNP P62983
E	77	ASP	-	see sequence details	UNP P62983

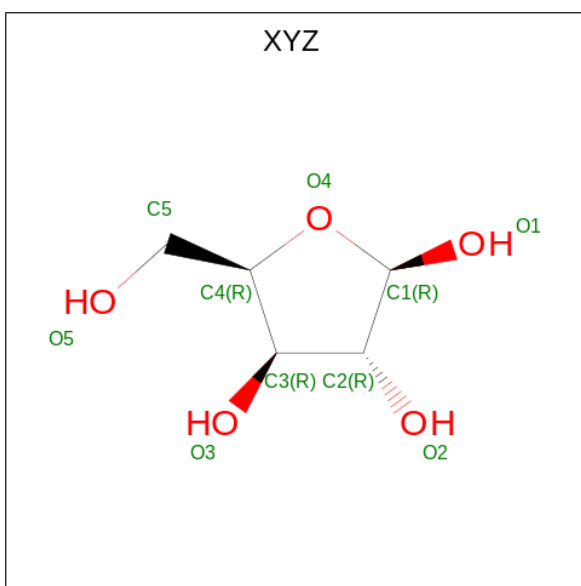
- Molecule 3 is a protein called Ubiquitin-40S ribosomal protein S27a.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	C	76	Total 603	C 378	N 107	O 117	S 1	0	0	0
3	F	76	Total 603	C 378	N 107	O 117	S 1	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	63	ARG	LYS	engineered mutation	UNP P62983
F	63	ARG	LYS	engineered mutation	UNP P62983

- Molecule 4 is beta-D-xylofuranose (three-letter code: XYZ) (formula: C₅H₁₀O₅).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
4	A	1	Total 10	C 5	O 5	0	0
4	D	1	Total 10	C 5	O 5	0	0

- Molecule 5 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	B	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	C	1	Total	Mg	0	0
			1	1		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	66	Total	O	0	0
			66	66		
6	B	48	Total	O	0	0
			48	48		
6	C	47	Total	O	0	0
			47	47		
6	D	62	Total	O	0	0
			62	62		
6	E	23	Total	O	0	0
			23	23		
6	F	66	Total	O	0	0
			66	66		

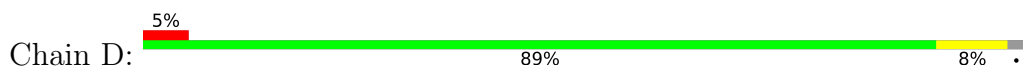
3 Residue-property plots [i](#)

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: E3 ubiquitin-protein ligase RNF168



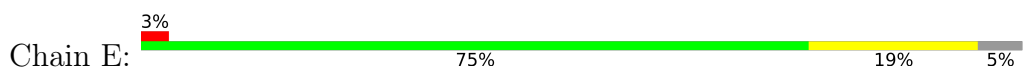
- Molecule 1: E3 ubiquitin-protein ligase RNF168



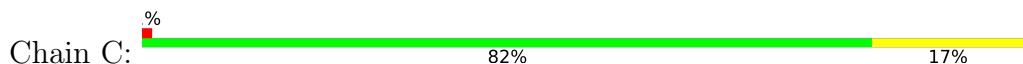
- Molecule 2: Ubiquitin-40S ribosomal protein S27a



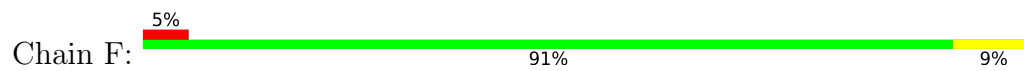
- Molecule 2: Ubiquitin-40S ribosomal protein S27a



- Molecule 3: Ubiquitin-40S ribosomal protein S27a



- Molecule 3: Ubiquitin-40S ribosomal protein S27a



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	35.27Å 66.29Å 74.17Å 76.47° 79.29° 80.49°	Depositor
Resolution (Å)	43.29 – 1.78 43.29 – 1.78	Depositor EDS
% Data completeness (in resolution range)	92.4 (43.29-1.78) 92.4 (43.29-1.78)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.06	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.49 (at 1.78Å)	Xtrriage
Refinement program	PHENIX 1.10_2155	Depositor
R, R_{free}	0.218 , 0.245 0.218 , 0.245	Depositor DCC
R_{free} test set	2863 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å ²)	34.0	Xtrriage
Anisotropy	0.285	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 43.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4048	wwPDB-VP
Average B, all atoms (Å ²)	47.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.14% 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: XYZ, MG

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	0.34	0/663	0.52	1/879 (0.1%)
1	D	0.29	0/697	0.46	0/923
2	B	0.33	0/580	0.59	0/781
2	E	0.27	0/588	0.50	0/792
3	C	0.33	0/609	0.70	1/819 (0.1%)
3	F	0.33	0/609	0.60	0/819
All	All	0.31	0/3746	0.56	2/5013 (0.0%)

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
3	C	0	1

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	74	ARG	NE-CZ-NH2	7.86	124.23	120.30
1	A	110	LEU	CB-CG-CD2	-5.49	101.66	111.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	C	74	ARG	Peptide

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	661	0	645	15	0
1	D	691	0	677	9	0
2	B	574	0	597	14	0
2	E	582	0	608	8	0
3	C	603	0	629	18	0
3	F	603	0	629	7	0
4	A	10	0	7	0	0
4	D	10	0	7	3	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
6	A	66	0	0	3	0
6	B	48	0	0	2	0
6	C	47	0	0	6	0
6	D	62	0	0	2	0
6	E	23	0	0	0	0
6	F	66	0	0	2	0
All	All	4048	0	3799	59	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 8.

All (59) 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)
2:B:11:LYS:NZ	6:B:201:HOH:O	2.20	0.74
1:A:116:LEU:HD23	3:C:34:GLU:HG3	1.74	0.69
1:A:111:SER:OG	6:A:301:HOH:O	2.12	0.68
2:B:63:LYS:O	2:B:64:GLU:HG2	1.94	0.67
3:C:11:LYS:N	6:C:202:HOH:O	2.26	0.66
3:C:1:MET:HG3	3:C:63:ARG:HG2	1.76	0.66
2:B:1:MET:HG3	2:B:63:LYS:HB3	1.77	0.66
1:D:107:GLY:HA3	3:F:12:THR:HG21	1.78	0.65
1:A:110:LEU:N	3:C:12:THR:O	2.32	0.63
3:C:74:ARG:NH1	6:C:203:HOH:O	2.33	0.62
1:A:111:SER:HB3	3:C:13:ILE:HG22	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:4:PHE:HE2	2:E:64:GLU:HG3	1.65	0.60
1:A:127:VAL:HG11	3:C:75:GLY:H	1.66	0.60
2:B:42:ARG:HD2	2:B:49:GLN:NE2	2.17	0.59
3:C:76:GLY:O	6:C:201:HOH:O	2.17	0.58
3:F:54:ARG:NH2	6:F:101:HOH:O	2.18	0.57
3:F:11:LYS:NZ	6:F:105:HOH:O	2.38	0.56
2:B:42:ARG:NH1	2:B:72:ARG:HA	2.20	0.56
3:C:7:THR:N	6:C:202:HOH:O	2.35	0.56
2:B:55:THR:HG22	2:B:58:ASP:CG	2.27	0.54
2:B:55:THR:HG23	2:B:58:ASP:H	1.73	0.54
2:B:2:GLN:HG3	2:B:14:THR:HG23	1.88	0.54
2:E:8:LEU:HD21	2:E:70:VAL:HG12	1.90	0.53
1:A:131:ARG:CZ	3:C:76:GLY:HA2	2.39	0.53
3:C:63:ARG:NH1	6:C:206:HOH:O	2.39	0.51
1:A:114:GLY:HA2	1:A:117:ARG:HB3	1.94	0.50
3:C:11:LYS:N	3:C:11:LYS:HD2	2.27	0.50
1:D:117:ARG:HD2	4:D:201:XYZ:O1	2.11	0.50
1:D:111:SER:OG	6:D:302:HOH:O	2.19	0.49
2:B:72:ARG:NH2	6:B:202:HOH:O	2.21	0.49
1:D:107:GLY:N	3:F:66:THR:HG1	2.10	0.48
2:E:39:ASP:O	2:E:73:LEU:HD12	2.12	0.48
2:B:42:ARG:HD2	2:B:49:GLN:HE22	1.78	0.47
1:A:131:ARG:HD2	3:C:75:GLY:O	2.15	0.47
2:E:42:ARG:HB2	2:E:70:VAL:HG23	1.97	0.47
3:F:63:ARG:HB3	3:F:64:GLU:OE1	2.15	0.47
2:E:7:THR:OG1	2:E:11:LYS:HB3	2.16	0.46
3:C:74:ARG:HA	3:C:74:ARG:HD3	1.40	0.46
1:D:118:ARG:NH1	6:D:301:HOH:O	2.14	0.45
1:A:132:ARG:NH1	6:A:307:HOH:O	2.49	0.45
1:D:121:GLU:OE1	4:D:201:XYZ:O3	2.34	0.45
2:B:42:ARG:HB2	2:B:70:VAL:HG23	2.00	0.44
3:C:6:LYS:HA	3:C:11:LYS:O	2.17	0.44
1:D:123:GLU:HG2	3:F:73:LEU:HD13	1.98	0.44
1:D:115:GLU:OE2	3:F:11:LYS:NZ	2.49	0.44
2:E:23:ILE:HG12	2:E:54:ARG:O	2.17	0.44
2:E:14:THR:O	2:E:33:LYS:HE3	2.18	0.43
1:A:162:GLU:OE2	1:A:165:ARG:NH2	2.43	0.43
1:A:142:SER:HA	2:B:47:GLY:HA2	2.00	0.42
2:E:16:GLU:O	2:E:29:LYS:NZ	2.38	0.42
1:A:140:LYS:HA	1:A:140:LYS:HD3	1.81	0.42
2:B:45:PHE:HB2	2:B:67:LEU:HD22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:63:ARG:HB3	3:C:64:GLU:OE1	2.20	0.41
3:C:63:ARG:HG3	6:C:229:HOH:O	2.20	0.41
3:C:22:THR:HA	3:C:55:THR:HA	2.03	0.41
1:D:121:GLU:OE2	4:D:201:XYZ:H52	2.19	0.41
1:A:123:GLU:HG3	6:A:334:HOH:O	2.21	0.40
1:A:132:ARG:HH12	2:B:64:GLU:CD	2.25	0.40
1:A:132:ARG:HA	1:A:132:ARG:HD3	1.79	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	77/84 (92%)	76 (99%)	1 (1%)	0	100	100
1	D	81/84 (96%)	81 (100%)	0	0	100	100
2	B	70/77 (91%)	70 (100%)	0	0	100	100
2	E	71/77 (92%)	70 (99%)	1 (1%)	0	100	100
3	C	74/76 (97%)	74 (100%)	0	0	100	100
3	F	74/76 (97%)	74 (100%)	0	0	100	100
All	All	447/474 (94%)	445 (100%)	2 (0%)	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	70/73 (96%)	70 (100%)	0	100	100
1	D	73/73 (100%)	73 (100%)	0	100	100
2	B	66/69 (96%)	66 (100%)	0	100	100
2	E	67/69 (97%)	67 (100%)	0	100	100
3	C	68/68 (100%)	68 (100%)	0	100	100
3	F	68/68 (100%)	68 (100%)	0	100	100
All	All	412/420 (98%)	412 (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. There are no such sidechains identified.

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 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 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	XYZ	A	201	-	10,10,10	0.55	0	13,14,14	0.95	0
4	XYZ	D	201	-	10,10,10	0.58	0	13,14,14	0.90	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	XYZ	A	201	-	-	2/2/18/18	0/1/1/1
4	XYZ	D	201	-	-	1/2/18/18	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	201	XYZ	O4-C4-C5-O5
4	A	201	XYZ	C3-C4-C5-O5
4	D	201	XYZ	O4-C4-C5-O5

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	D	201	XYZ	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, 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	79/84 (94%)	0.43	5 (6%) 20 19	27, 48, 67, 88	0
1	D	82/84 (97%)	0.50	4 (4%) 29 28	26, 49, 72, 103	0
2	B	72/77 (93%)	0.02	0 100 100	29, 44, 65, 75	0
2	E	73/77 (94%)	0.46	2 (2%) 54 53	38, 54, 75, 78	0
3	C	76/76 (100%)	0.29	1 (1%) 77 77	30, 43, 67, 89	0
3	F	76/76 (100%)	0.30	4 (5%) 26 25	21, 35, 66, 97	0
All	All	458/474 (96%)	0.34	16 (3%) 44 42	21, 46, 72, 103	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	C	75	GLY	12.4
3	F	75	GLY	8.9
1	D	108	HIS	7.0
2	E	8	LEU	4.7
1	D	109	MET	4.4
2	E	73	LEU	3.2
3	F	73	LEU	3.2
1	A	184	ILE	2.9
1	D	188	ASN	2.8
3	F	74	ARG	2.7
1	D	132	ARG	2.5
1	A	113	PRO	2.5
3	F	76	GLY	2.5
1	A	166	ARG	2.4
1	A	172	LEU	2.2
1	A	111	SER	2.2

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
4	XYZ	D	201	10/10	0.56	0.62	90,104,111,113	0
4	XYZ	A	201	10/10	0.82	0.22	59,74,80,83	0
5	MG	B	101	1/1	0.99	0.09	32,32,32,32	0
5	MG	C	101	1/1	0.99	0.10	51,51,51,51	0

6.5 Other polymers [i](#)

There are no such residues in this entry.