Full wwPDB X-ray Structure Validation Report (i)

Aug 28, 2023 – 10:43 PM EDT

PDB ID	:	3O33
Title	:	Crystal structure of TRIM24 PHD-Bromo in the free state
Authors	:	Wang, Z.; Patel, D.J.
Deposited on	:	2010-07-23
Resolution	:	2.00 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:

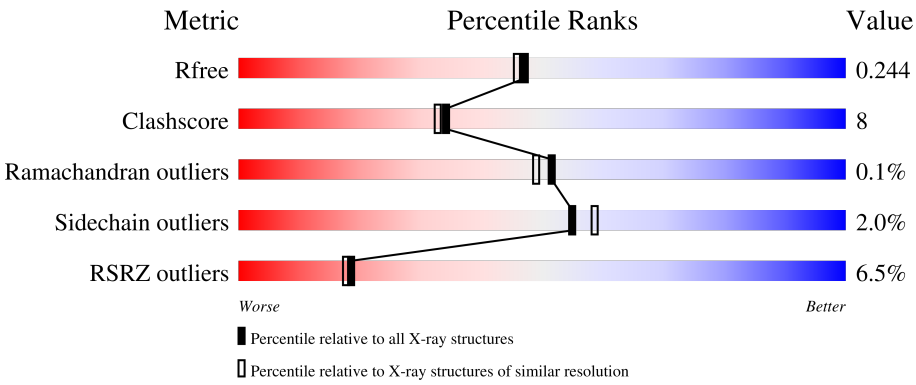
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.35
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35

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 2.00 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	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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	184	8% 73% 19% • 7%
1	B	184	5% 80% 19% •
1	C	184	3% 79% 17% • •
1	D	184	9% 72% 20% • 7%

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 5989 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 Transcription intermediary factor 1-alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	172	1404	902	223	265	14	0	0	0
1	B	183	1485	949	238	283	15	0	0	0
1	C	178	1446	928	230	273	15	0	0	0
1	D	172	1404	902	223	265	14	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	823	SER	-	expression tag	UNP O15164
B	823	SER	-	expression tag	UNP O15164
C	823	SER	-	expression tag	UNP O15164
D	823	SER	-	expression tag	UNP O15164

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Zn		
2	A	2	2	2	0	0
2	B	2	2	2	0	0
2	C	2	2	2	0	0
2	D	2	2	2	0	0

- Molecule 3 is water.

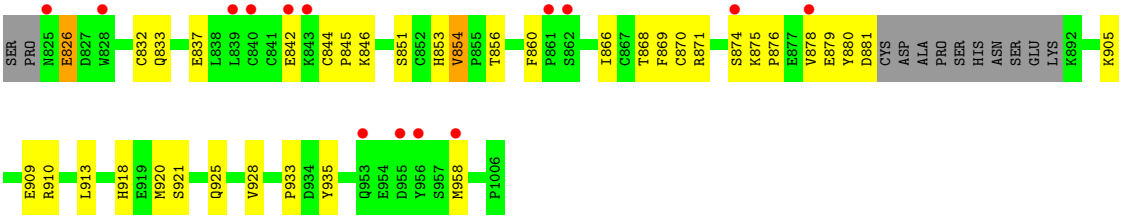
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
3	A	50	50	50	0	0
			Total	O		
3	B	69	69	69	0	0
			Total	O		
3	C	74	74	74	0	0
			Total	O		
3	D	49	49	49	0	0

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.

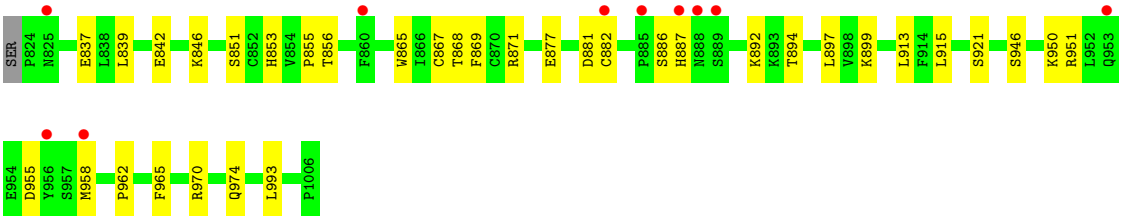
• Molecule 1: Transcription intermediary factor 1-alpha

Chain A:



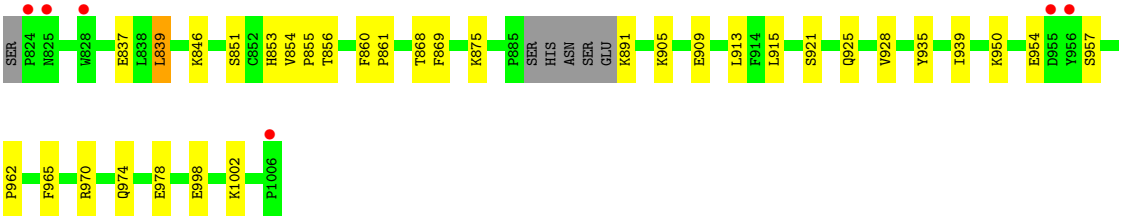
• Molecule 1: Transcription intermediary factor 1-alpha

Chain B:



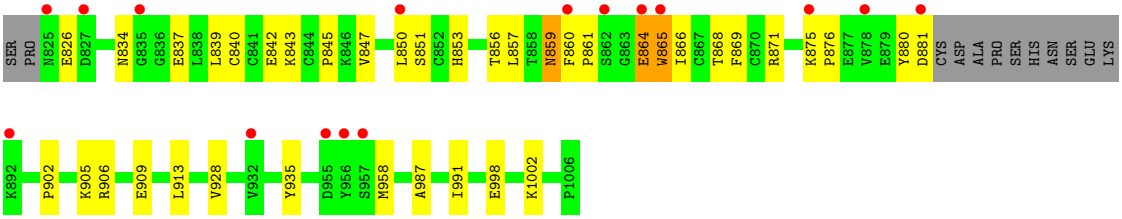
• Molecule 1: Transcription intermediary factor 1-alpha

Chain C:



• Molecule 1: Transcription intermediary factor 1-alpha

Chain D:


SER
PRO
N825
E826
D827
N834
G835
G836
E837
L838
L839
C840
C841
E842
K843
C844
P845
K846
V847
L850
S851
C852
H853
T856
L857
T858
N859
F860
P861
S862
G863
E864
W865
I866
C867
T868
F869
C870
R871
K875
P876
E877
V878
E879
Y880
D881
CYS
ASP
ALA
PRO
SER
HIS
ASN
SER
GLU
LYS
K892
P902
K905
R906
E909
L913
V928
V932
Y935
D955
Y956
S957
M958
A987
I991
E998
K1002
P1006

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α, β, γ	36.48Å 48.50Å 122.73Å 86.45° 81.46° 67.84°	Depositor
Resolution (Å)	19.69 – 2.00 19.69 – 1.99	Depositor EDS
% Data completeness (in resolution range)	96.3 (19.69-2.00) 95.5 (19.69-1.99)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.11	Depositor
$< I/\sigma(I) >$ [1]	2.83 (at 1.99Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.221 , 0.244 0.221 , 0.244	Depositor DCC
R_{free} test set	2498 reflections (4.96%)	wwPDB-VP
Wilson B-factor (Å^2)	26.4	Xtriage
Anisotropy	0.071	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.34 , 24.1	EDS
L-test for twinning[2]	$< \|L\| > = 0.51$, $< L^2 > = 0.34$	Xtriage
Estimated twinning fraction	0.458 for h,h-k,h-l 0.009 for -h,-h+k,-l 0.008 for -h,-k,-h+l	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	5989	wwPDB-VP
Average B, all atoms (Å^2)	35.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.19% of the height of the origin peak. No significant pseudotranslation is detected.*

[1]Intensities estimated from amplitudes.

[2]Theoretical 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.

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: ZN

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	0.32	0/1439	0.57	0/1946
1	B	0.36	0/1524	0.59	0/2063
1	C	0.33	0/1483	0.60	0/2006
1	D	0.32	0/1439	0.56	0/1946
All	All	0.33	0/5885	0.58	0/7961

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	1404	0	1364	25	0
1	B	1485	0	1436	22	0
1	C	1446	0	1406	22	0
1	D	1404	0	1364	27	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	2	0	0	0	0
3	A	50	0	0	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	69	0	0	3	0
3	C	74	0	0	2	0
3	D	49	0	0	1	0
All	All	5989	0	5570	95	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 (95) 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:D:842:GLU:HG3	1:D:864:GLU:HG3	1.48	0.95
1:B:946:SER:O	1:B:950:LYS:HD3	1.70	0.92
1:A:918:HIS:HD2	1:A:920:MET:H	1.20	0.89
1:A:842:GLU:HG3	1:A:866:ILE:HD13	1.69	0.74
1:D:880:TYR:O	1:D:881:ASP:HB3	1.90	0.71
1:C:970:ARG:O	1:C:974:GLN:HG3	1.90	0.71
1:B:853:HIS:HE1	1:B:868:THR:H	1.41	0.69
1:A:853:HIS:HE1	1:A:868:THR:H	1.41	0.68
1:D:905:LYS:O	1:D:909:GLU:HG3	1.93	0.68
1:C:891:LYS:HB2	1:C:891:LYS:NZ	2.10	0.67
1:C:853:HIS:HE1	1:C:868:THR:H	1.42	0.66
1:A:880:TYR:O	1:A:881:ASP:HB3	1.96	0.65
1:D:843:LYS:HG2	1:D:866:ILE:HD12	1.78	0.65
1:D:853:HIS:HE1	1:D:868:THR:H	1.45	0.64
1:C:974:GLN:O	1:C:978:GLU:HG3	2.00	0.61
1:B:915:LEU:HD22	1:B:993:LEU:HD22	1.81	0.61
1:A:928:VAL:HG21	1:A:935:TYR:CZ	2.38	0.59
1:A:918:HIS:CD2	1:A:920:MET:H	2.11	0.58
1:D:851:SER:HA	1:D:856:THR:HG23	1.84	0.58
1:C:998:GLU:O	1:C:1002:LYS:HG3	2.03	0.57
1:D:880:TYR:O	1:D:881:ASP:CB	2.51	0.57
1:B:837:GLU:O	1:B:837:GLU:HG2	2.05	0.57
1:D:826:GLU:OE2	1:D:845:PRO:HB2	2.05	0.56
1:D:839:LEU:HD11	1:D:850:LEU:HD23	1.88	0.56
1:C:853:HIS:CE1	1:C:868:THR:H	2.23	0.55
1:D:902:PRO:O	1:D:906:ARG:HG3	2.06	0.55
1:B:846:LYS:HG2	3:B:142:HOH:O	2.07	0.55
1:A:880:TYR:O	1:A:881:ASP:CB	2.54	0.54
1:A:905:LYS:O	1:A:909:GLU:HG3	2.09	0.53
1:A:958:MET:HB2	3:A:106:HOH:O	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:871:ARG:HD2	1:D:876:PRO:HB3	1.92	0.52
1:B:839:LEU:HG	1:B:865:TRP:CE3	2.45	0.52
1:A:910:ARG:HD3	3:A:139:HOH:O	2.08	0.52
1:D:840:CYS:O	1:D:865:TRP:HD1	1.94	0.51
1:A:853:HIS:CE1	1:A:868:THR:H	2.25	0.51
1:C:905:LYS:O	1:C:909:GLU:HG3	2.11	0.51
1:C:962:PRO:HA	1:C:965:PHE:CE2	2.47	0.49
1:C:837:GLU:OE2	1:D:834:ASN:ND2	2.45	0.49
1:B:958:MET:HG2	3:B:151:HOH:O	2.12	0.49
1:D:853:HIS:CE1	1:D:868:THR:H	2.28	0.49
1:A:842:GLU:HG3	1:A:866:ILE:CD1	2.41	0.49
1:A:832:CYS:O	1:A:833:GLN:HB2	2.13	0.48
1:B:881:ASP:OD1	1:B:882:CYS:N	2.47	0.48
1:B:962:PRO:HA	1:B:965:PHE:CE2	2.49	0.48
1:B:867:CYS:SG	1:B:869:PHE:HB2	2.55	0.47
1:B:899:LYS:HD3	3:C:146:HOH:O	2.13	0.47
1:D:869:PHE:CZ	1:D:913:LEU:HG	2.48	0.47
1:B:853:HIS:CE1	1:B:868:THR:H	2.27	0.47
1:C:837:GLU:HB3	1:C:860:PHE:CZ	2.50	0.46
1:D:876:PRO:HG2	1:D:906:ARG:NE	2.30	0.46
1:C:950:LYS:O	1:C:954:GLU:HG3	2.15	0.46
1:D:958:MET:HG2	3:D:106:HOH:O	2.16	0.46
1:B:851:SER:HA	1:B:856:THR:HG23	1.97	0.46
1:B:970:ARG:O	1:B:974:GLN:HG3	2.16	0.46
1:C:846:LYS:NZ	3:C:166:HOH:O	2.48	0.46
1:A:854:VAL:HG13	1:A:913:LEU:HB2	1.96	0.46
1:D:857:LEU:HD21	1:D:865:TRP:CZ3	2.51	0.46
1:B:869:PHE:CZ	1:B:913:LEU:HG	2.51	0.45
1:D:837:GLU:HB3	1:D:860:PHE:CZ	2.51	0.45
1:B:842:GLU:HG2	3:B:127:HOH:O	2.15	0.45
1:D:859:ASN:C	1:D:859:ASN:HD22	2.21	0.45
1:B:894:THR:HG21	1:B:897:LEU:HD23	1.98	0.45
1:A:844:CYS:HB3	1:A:870:CYS:SG	2.57	0.44
1:A:826:GLU:HG3	1:A:846:LYS:HA	1.99	0.44
1:C:891:LYS:HB2	1:C:891:LYS:HZ2	1.78	0.44
1:B:951:ARG:HD3	1:B:958:MET:SD	2.58	0.44
1:C:915:LEU:O	1:C:921:SER:HB3	2.18	0.44
1:B:853:HIS:HD2	1:B:855:PRO:O	2.01	0.44
1:C:954:GLU:O	1:C:957:SER:HB2	2.18	0.44
1:C:839:LEU:HD11	1:C:861:PRO:CD	2.48	0.44
1:D:998:GLU:O	1:D:1002:LYS:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:871:ARG:CD	1:D:876:PRO:HB3	2.48	0.43
1:D:839:LEU:O	1:D:847:VAL:HA	2.18	0.43
1:D:928:VAL:HG21	1:D:935:TYR:CZ	2.53	0.43
1:C:869:PHE:CZ	1:C:913:LEU:HG	2.52	0.43
1:A:851:SER:HA	1:A:856:THR:HG23	2.00	0.43
1:A:869:PHE:CZ	1:A:913:LEU:HG	2.52	0.43
1:B:915:LEU:O	1:B:921:SER:HB3	2.20	0.42
1:C:921:SER:O	1:C:925:GLN:HG3	2.19	0.42
1:D:860:PHE:HA	1:D:861:PRO:HD3	1.80	0.42
1:A:871:ARG:NE	1:A:876:PRO:HB3	2.34	0.42
1:D:843:LYS:CG	1:D:866:ILE:HD12	2.49	0.42
1:C:935:TYR:CZ	1:C:939:ILE:HG13	2.55	0.42
1:A:837:GLU:HB3	1:A:860:PHE:CZ	2.55	0.42
1:D:987:ALA:O	1:D:991:ILE:HG12	2.19	0.41
1:C:854:VAL:HA	1:C:855:PRO:HA	1.87	0.41
1:A:844:CYS:HB2	1:A:845:PRO:HD2	2.01	0.41
1:A:826:GLU:H	1:A:826:GLU:HG2	1.64	0.41
1:A:878:VAL:HG12	1:A:879:GLU:N	2.35	0.41
1:C:928:VAL:HG21	1:C:935:TYR:CZ	2.56	0.41
1:A:921:SER:O	1:A:925:GLN:HG3	2.21	0.41
1:B:877:GLU:OE1	1:B:877:GLU:N	2.52	0.40
1:B:886:SER:OG	1:B:887:HIS:N	2.54	0.40
1:A:871:ARG:NH2	1:A:880:TYR:CD2	2.89	0.40
1:C:851:SER:HA	1:C:856:THR:HG23	2.03	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	168/184 (91%)	167 (99%)	0	1 (1%)	25 19

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	181/184 (98%)	178 (98%)	3 (2%)	0	100	100
1	C	174/184 (95%)	172 (99%)	2 (1%)	0	100	100
1	D	168/184 (91%)	164 (98%)	4 (2%)	0	100	100
All	All	691/736 (94%)	681 (99%)	9 (1%)	1 (0%)	51	49

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	933	PRO

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	161/172 (94%)	157 (98%)	4 (2%)	47	49
1	B	171/172 (99%)	168 (98%)	3 (2%)	59	63
1	C	166/172 (96%)	164 (99%)	2 (1%)	71	76
1	D	161/172 (94%)	157 (98%)	4 (2%)	47	49
All	All	659/688 (96%)	646 (98%)	13 (2%)	55	58

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	826	GLU
1	A	854	VAL
1	A	874	SER
1	A	875	LYS
1	B	871	ARG
1	B	892	LYS
1	B	955	ASP
1	C	839	LEU
1	C	875	LYS
1	D	859	ASN

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Mol	Chain	Res	Type
1	D	864	GLU
1	D	865	TRP
1	D	875	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	853	HIS
1	A	918	HIS
1	A	974	GLN
1	B	853	HIS
1	B	953	GLN
1	B	974	GLN
1	C	834	ASN
1	C	853	HIS
1	C	953	GLN
1	D	853	HIS
1	D	859	ASN

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 8 ligands modelled in this entry, 8 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 (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, 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	172/184 (93%)	0.45	14 (8%)	12	11	20, 33, 79, 102	0
1	B	183/184 (99%)	0.24	10 (5%)	25	24	15, 28, 65, 93	0
1	C	178/184 (96%)	0.10	6 (3%)	45	44	15, 27, 56, 99	0
1	D	172/184 (93%)	0.38	16 (9%)	8	8	21, 33, 74, 101	0
All	All	705/736 (95%)	0.29	46 (6%)	18	18	15, 31, 71, 102	0

All (46) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	956	TYR	6.9
1	A	956	TYR	6.1
1	A	955	ASP	5.6
1	A	825	ASN	5.0
1	B	956	TYR	4.4
1	D	881	ASP	4.1
1	B	889	SER	4.0
1	A	861	PRO	3.8
1	B	888	ASN	3.5
1	B	885	PRO	3.4
1	D	865	TRP	3.3
1	D	878	VAL	3.3
1	C	955	ASP	3.1
1	A	878	VAL	2.9
1	D	957	SER	2.8
1	D	862	SER	2.8
1	B	887	HIS	2.7
1	C	825	ASN	2.7
1	A	953	GLN	2.7
1	A	843	LYS	2.6
1	D	875	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	874	SER	2.5
1	A	842	GLU	2.4
1	D	864	GLU	2.4
1	C	824	PRO	2.4
1	D	932	VAL	2.4
1	A	828	TRP	2.4
1	B	953	GLN	2.4
1	B	958	MET	2.4
1	C	956	TYR	2.4
1	A	958	MET	2.4
1	B	825	ASN	2.3
1	A	862	SER	2.3
1	D	827	ASP	2.3
1	D	860	PHE	2.3
1	C	828	TRP	2.3
1	A	839	LEU	2.3
1	D	825	ASN	2.3
1	D	955	ASP	2.2
1	B	860	PHE	2.2
1	A	840	CYS	2.2
1	D	892	LYS	2.1
1	B	882	CYS	2.1
1	D	835	GLY	2.1
1	D	850	LEU	2.0
1	C	1006	PRO	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	ZN	A	2	1/1	0.92	0.06	41,41,41,41	0
2	ZN	D	2	1/1	0.97	0.04	40,40,40,40	0
2	ZN	B	2	1/1	0.98	0.07	26,26,26,26	0
2	ZN	C	2	1/1	0.98	0.06	25,25,25,25	0
2	ZN	B	1	1/1	0.98	0.09	25,25,25,25	0
2	ZN	A	1	1/1	0.99	0.03	30,30,30,30	0
2	ZN	D	1	1/1	0.99	0.07	32,32,32,32	0
2	ZN	C	1	1/1	0.99	0.07	26,26,26,26	0

6.5 Other polymers (i)

There are no such residues in this entry.