



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 04:49 AM GMT

PDB ID : 2OCJ
Title : Human p53 core domain in the absence of DNA
Authors : Wang, Y.; Rosengarth, A.; Luecke, H.
Deposited on : 2006-12-20
Resolution : 2.05 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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
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) : trunk26865

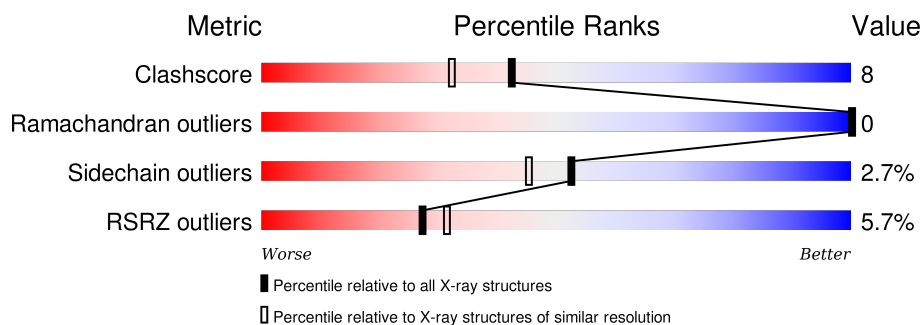
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.05 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))
Clashscore	102246	1269 (2.04-2.04)
Ramachandran outliers	100387	1258 (2.04-2.04)
Sidechain outliers	100360	1258 (2.04-2.04)
RSRZ outliers	91569	1194 (2.04-2.04)

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 ≥ 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	219	
1	B	219	
1	C	219	
1	D	219	

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 6485 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 P53 TUMOR SUPPRESSOR.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	194	Total	C	N	O	S	0	0	0
			1523	939	281	287	16			
1	B	194	Total	C	N	O	S	0	0	0
			1523	939	281	287	16			
1	C	194	Total	C	N	O	S	0	0	0
			1523	939	281	287	16			
1	D	194	Total	C	N	O	S	0	0	0
			1523	939	281	287	16			

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Zn	0	0
			1	1		
2	A	1	Total	Zn	0	0
			1	1		
2	D	1	Total	Zn	0	0
			1	1		
2	C	1	Total	Zn	0	0
			1	1		

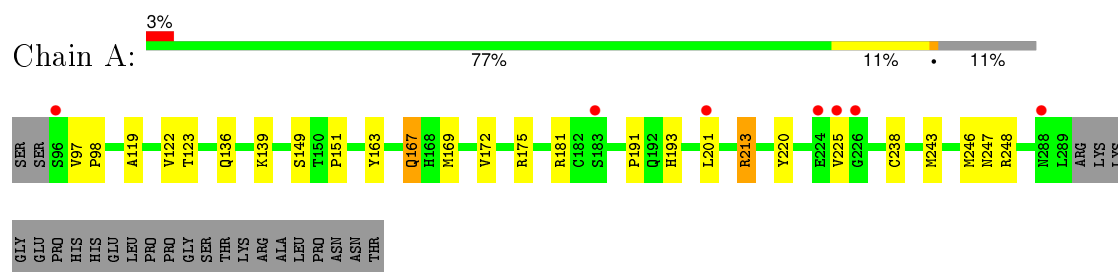
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	103	Total	O	0	0
			103	103		
3	B	110	Total	O	0	0
			110	110		
3	C	79	Total	O	0	0
			79	79		
3	D	97	Total	O	0	0
			97	97		

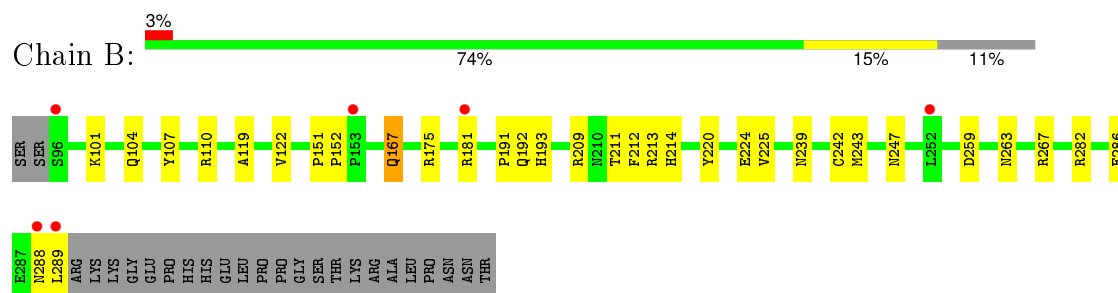
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

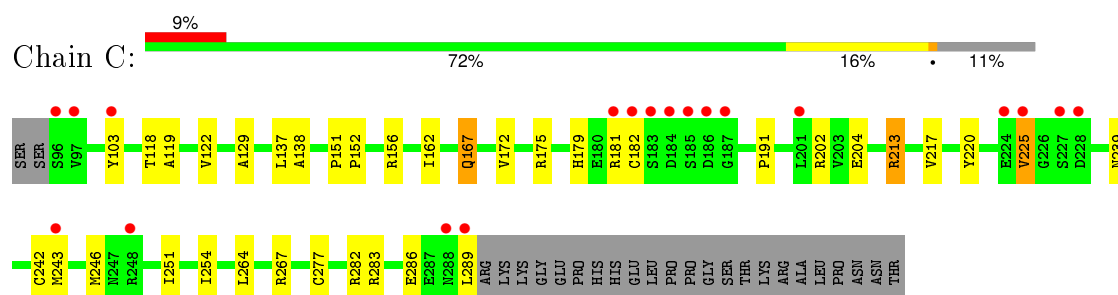
• Molecule 1: P53 TUMOR SUPPRESSOR



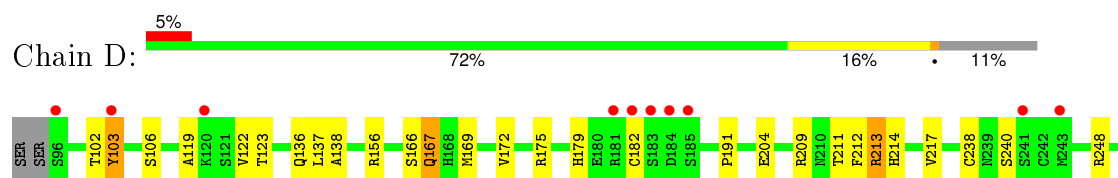
• Molecule 1: P53 TUMOR SUPPRESSOR

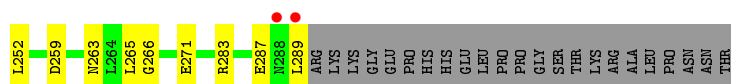


• Molecule 1: P53 TUMOR SUPPRESSOR



• Molecule 1: P53 TUMOR SUPPRESSOR





4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	68.91Å 69.36Å 84.18Å 90.00° 90.11° 90.00°	Depositor
Resolution (Å)	50.00 – 2.05 42.30 – 2.05	Depositor EDS
% Data completeness (in resolution range)	99.1 (50.00-2.05) 99.0 (42.30-2.05)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.96 (at 2.05Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.209 , 0.246 0.223 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	21.7	Xtriage
Anisotropy	1.072	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 52.8	EDS
Estimated twinning fraction	0.007 for -k,-h,-l 0.008 for k,h,-l 0.116 for h,-k,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	1 of 49560 reflections (0.002%)	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	6485	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 12.40% 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, 0.375 respectively for untwinned datasets, and 0.333, 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	0.34	0/1558	0.62	0/2113
1	B	0.34	0/1558	0.62	0/2113
1	C	0.30	0/1558	0.58	0/2113
1	D	0.33	0/1558	0.61	0/2113
All	All	0.33	0/6232	0.61	0/8452

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	1523	0	1480	22	0
1	B	1523	0	1480	31	0
1	C	1523	0	1480	25	0
1	D	1523	0	1480	31	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
3	A	103	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	110	0	0	4	0
3	C	79	0	0	2	0
3	D	97	0	0	3	0
All	All	6485	0	5920	100	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 (100) 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:B:243:MET:HE1	1:D:266:GLY:HA2	1.57	0.86
1:B:167:GLN:H	1:B:167:GLN:NE2	1.77	0.82
1:D:167:GLN:H	1:D:167:GLN:NE2	1.80	0.80
1:D:167:GLN:HE21	1:D:167:GLN:H	1.32	0.78
1:B:243:MET:CE	1:D:103:TYR:HB3	2.18	0.73
1:A:167:GLN:NE2	1:A:167:GLN:H	1.87	0.71
1:C:119:ALA:O	1:C:122:VAL:HG22	1.91	0.71
1:B:243:MET:CE	1:D:266:GLY:HA2	2.24	0.68
1:D:209:ARG:HD3	3:D:569:HOH:O	1.92	0.67
1:B:167:GLN:H	1:B:167:GLN:HE21	1.40	0.66
1:C:239:ASN:HB2	1:C:242:CYS:SG	2.38	0.64
1:A:167:GLN:N	1:A:167:GLN:HE21	1.96	0.62
1:D:166:SER:HA	1:D:169:MET:HG3	1.81	0.62
1:D:167:GLN:HE21	1:D:167:GLN:N	1.96	0.62
1:C:137:LEU:HD23	1:C:138:ALA:N	2.15	0.61
1:A:175:ARG:HD3	1:A:191:PRO:O	1.99	0.61
1:D:123:THR:HG22	1:D:136:GLN:OE1	2.00	0.61
1:B:175:ARG:HD3	1:B:191:PRO:O	2.01	0.60
1:B:259:ASP:OD2	1:B:263:ASN:HB2	2.02	0.60
1:C:204:GLU:HB3	1:C:217:VAL:HG13	1.84	0.59
1:B:243:MET:HE3	1:D:265:LEU:O	2.02	0.59
1:B:167:GLN:N	1:B:167:GLN:HE21	2.00	0.58
1:B:239:ASN:HD22	1:D:106:SER:HB2	1.68	0.58
1:A:181:ARG:HH11	1:A:181:ARG:HG2	1.69	0.57
1:B:243:MET:HE1	1:D:103:TYR:HB3	1.87	0.56
1:B:242:CYS:SG	1:D:106:SER:HB3	2.46	0.56
1:D:119:ALA:O	1:D:122:VAL:HG22	2.06	0.56
1:D:175:ARG:NH2	1:D:179:HIS:HB3	2.21	0.56
1:A:167:GLN:NE2	1:A:167:GLN:N	2.53	0.56
1:A:149:SER:OG	1:C:277:CYS:SG	2.65	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:156:ARG:HD2	3:D:514:HOH:O	2.06	0.55
1:A:136:GLN:HB2	1:A:139:LYS:HG3	1.88	0.54
1:D:175:ARG:HH21	1:D:179:HIS:HB3	1.73	0.54
1:A:175:ARG:HD2	1:A:193:HIS:O	2.08	0.54
1:A:151:PRO:HD2	1:A:220:TYR:CE2	2.43	0.54
1:B:107:TYR:CZ	1:B:152:PRO:HD3	2.43	0.53
1:C:282:ARG:O	1:C:286:GLU:HG3	2.07	0.53
1:D:172:VAL:HG22	1:D:213:ARG:HD2	1.91	0.53
1:A:172:VAL:HG22	1:A:213:ARG:HD2	1.91	0.52
1:D:137:LEU:HD23	1:D:138:ALA:N	2.25	0.52
1:A:247:ASN:O	1:A:248:ARG:HB2	2.10	0.52
1:D:137:LEU:HD11	1:D:179:HIS:NE2	2.25	0.52
1:B:243:MET:HE2	1:D:103:TYR:HB3	1.92	0.52
1:C:162:ILE:HD13	1:C:254:ILE:HD11	1.92	0.51
1:B:209:ARG:HD3	3:B:599:HOH:O	2.10	0.51
1:A:97:VAL:HG11	1:A:169:MET:HG2	1.92	0.51
1:A:123:THR:HG22	1:A:136:GLN:OE1	2.11	0.51
1:B:175:ARG:HD2	1:B:193:HIS:O	2.10	0.50
1:B:101:LYS:HE3	3:B:582:HOH:O	2.10	0.50
1:D:204:GLU:HB3	1:D:217:VAL:HG13	1.94	0.50
1:B:282:ARG:O	1:B:286:GLU:HG3	2.12	0.50
1:C:167:GLN:NE2	1:C:167:GLN:H	2.10	0.50
1:C:202:ARG:HD3	3:C:570:HOH:O	2.10	0.50
1:D:252:LEU:HD23	1:D:271:GLU:HA	1.94	0.49
1:A:201:LEU:N	1:A:201:LEU:HD12	2.27	0.49
1:B:224:GLU:OE2	1:B:224:GLU:HA	2.13	0.48
1:D:240:SER:O	1:D:248:ARG:N	2.38	0.48
1:C:246:MET:SD	1:C:251:ILE:HD13	2.54	0.47
1:A:181:ARG:HG2	1:A:181:ARG:NH1	2.28	0.47
1:C:172:VAL:HG22	1:C:213:ARG:HD2	1.95	0.47
1:B:193:HIS:CE1	1:B:214:HIS:HB3	2.50	0.47
1:D:211:THR:O	1:D:212:PHE:HB2	2.15	0.46
1:B:288:ASN:O	1:B:289:LEU:HB2	2.15	0.46
1:C:175:ARG:NH2	1:C:179:HIS:HB3	2.30	0.46
1:C:118:THR:HG22	1:C:282:ARG:HD3	1.98	0.45
1:C:137:LEU:C	1:C:137:LEU:HD23	2.37	0.45
1:C:162:ILE:CD1	1:C:254:ILE:HD11	2.47	0.45
1:C:162:ILE:HG13	1:C:162:ILE:O	2.17	0.44
1:C:175:ARG:HD3	1:C:191:PRO:O	2.17	0.44
1:D:214:HIS:HD2	3:D:518:HOH:O	1.99	0.44
1:D:175:ARG:HD3	1:D:191:PRO:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:192:GLN:HG3	3:B:516:HOH:O	2.18	0.43
1:C:129:ALA:HB1	1:C:289:LEU:HD21	2.00	0.43
1:B:104:GLN:NE2	1:B:110:ARG:HE	2.16	0.43
1:B:225:VAL:HG13	1:B:225:VAL:O	2.18	0.43
1:A:163:TYR:OH	1:A:246:MET:HA	2.18	0.43
1:B:181:ARG:HG3	1:B:181:ARG:HH11	1.84	0.43
1:D:179:HIS:HA	1:D:182:CYS:HB2	1.99	0.43
1:A:97:VAL:CG1	1:A:169:MET:HG2	2.49	0.43
1:B:211:THR:O	1:B:212:PHE:HB2	2.19	0.43
1:B:151:PRO:HD2	1:B:220:TYR:CE2	2.54	0.43
1:C:151:PRO:HD2	1:C:220:TYR:CE2	2.53	0.43
1:A:97:VAL:HA	1:A:98:PRO:HD3	1.92	0.43
1:C:175:ARG:HH21	1:C:179:HIS:HB3	1.84	0.43
1:C:225:VAL:CG2	1:C:225:VAL:O	2.65	0.42
1:B:101:LYS:O	1:B:267:ARG:HD2	2.20	0.42
1:C:264:LEU:CD2	1:C:267:ARG:NH2	2.83	0.42
1:A:201:LEU:H	1:A:201:LEU:HD12	1.84	0.42
1:C:286:GLU:O	1:C:289:LEU:HB3	2.20	0.42
1:B:191:PRO:HD2	3:B:516:HOH:O	2.20	0.42
1:A:119:ALA:O	1:A:122:VAL:HG22	2.20	0.41
1:A:225:VAL:HG23	1:A:225:VAL:O	2.20	0.41
1:D:259:ASP:OD2	1:D:263:ASN:HB2	2.20	0.41
1:B:119:ALA:O	1:B:122:VAL:HG22	2.20	0.41
1:C:151:PRO:HA	1:C:152:PRO:HD3	1.97	0.41
1:B:289:LEU:HD12	1:B:289:LEU:N	2.36	0.41
1:D:283:ARG:O	1:D:287:GLU:HG3	2.20	0.41
1:A:243:MET:HB3	3:A:601:HOH:O	2.20	0.40
1:D:102:THR:O	1:D:103:TYR:CD2	2.75	0.40
1:C:156:ARG:HD2	3:C:535:HOH:O	2.21	0.40

There are no symmetry-related clashes.

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	192/219 (88%)	188 (98%)	4 (2%)	0	100	100
1	B	192/219 (88%)	188 (98%)	4 (2%)	0	100	100
1	C	192/219 (88%)	187 (97%)	5 (3%)	0	100	100
1	D	192/219 (88%)	187 (97%)	5 (3%)	0	100	100
All	All	768/876 (88%)	750 (98%)	18 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	174/196 (89%)	171 (98%)	3 (2%)	68	65
1	B	174/196 (89%)	171 (98%)	3 (2%)	68	65
1	C	174/196 (89%)	166 (95%)	8 (5%)	33	24
1	D	174/196 (89%)	169 (97%)	5 (3%)	50	42
All	All	696/784 (89%)	677 (97%)	19 (3%)	52	45

All (19) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	167	GLN
1	A	213	ARG
1	A	238	CYS
1	B	167	GLN
1	B	213	ARG
1	B	247	ASN
1	C	103	TYR
1	C	167	GLN
1	C	181	ARG
1	C	182	CYS
1	C	213	ARG
1	C	225	VAL
1	C	243	MET

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Mol	Chain	Res	Type
1	C	283	ARG
1	D	103	TYR
1	D	167	GLN
1	D	213	ARG
1	D	238	CYS
1	D	289	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (23) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	104	GLN
1	A	131	ASN
1	A	167	GLN
1	A	210	ASN
1	A	214	HIS
1	A	235	ASN
1	B	104	GLN
1	B	131	ASN
1	B	167	GLN
1	B	210	ASN
1	B	235	ASN
1	B	239	ASN
1	B	247	ASN
1	B	288	ASN
1	C	104	GLN
1	C	131	ASN
1	C	167	GLN
1	C	214	HIS
1	D	104	GLN
1	D	131	ASN
1	D	167	GLN
1	D	210	ASN
1	D	214	HIS

5.3.3 RNA ⓘ

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 4 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 ⓘ

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	194/219 (88%)	0.15	7 (3%) 46 53	10, 26, 49, 63	0
1	B	194/219 (88%)	0.09	6 (3%) 52 60	11, 24, 45, 66	0
1	C	194/219 (88%)	0.46	19 (9%) 10 10	18, 31, 58, 70	0
1	D	194/219 (88%)	0.30	12 (6%) 24 27	14, 28, 53, 75	0
All	All	776/876 (88%)	0.25	44 (5%) 27 31	10, 27, 53, 75	0

All (44) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	96	SER	5.3
1	A	225	VAL	5.1
1	D	96	SER	5.0
1	C	243	MET	5.0
1	C	183	SER	4.7
1	D	243	MET	4.7
1	D	182	CYS	4.4
1	C	184	ASP	4.3
1	D	184	ASP	4.2
1	C	289	LEU	4.2
1	A	224	GLU	4.2
1	D	185	SER	4.1
1	C	103	TYR	4.1
1	B	153	PRO	4.0
1	C	182	CYS	4.0
1	C	248	ARG	3.8
1	A	226	GLY	3.6
1	D	103	TYR	3.6
1	D	289	LEU	3.5
1	D	183	SER	3.4
1	C	185	SER	3.2

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Mol	Chain	Res	Type	RSRZ
1	C	186	ASP	3.2
1	C	201	LEU	3.2
1	D	181	ARG	3.1
1	D	288	ASN	3.1
1	C	288	ASN	3.0
1	A	183	SER	2.9
1	B	96	SER	2.8
1	C	97	VAL	2.8
1	C	187	GLY	2.8
1	C	225	VAL	2.8
1	A	288	ASN	2.7
1	C	181	ARG	2.6
1	D	241	SER	2.5
1	B	288	ASN	2.5
1	C	227	SER	2.5
1	B	181	ARG	2.4
1	C	224	GLU	2.4
1	B	289	LEU	2.4
1	D	120	LYS	2.2
1	A	201	LEU	2.2
1	A	96	SER	2.1
1	B	252	LEU	2.1
1	C	228	ASP	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, 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	LLDF	B-factors(\AA^2)	Q<0.9
2	ZN	B	502	1/1	0.99	0.09	-1.34	24,24,24,24	0
2	ZN	C	503	1/1	0.97	0.06	-1.96	44,44,44,44	0
2	ZN	D	504	1/1	0.97	0.07	-2.11	40,40,40,40	0
2	ZN	A	501	1/1	0.97	0.09	-2.56	26,26,26,26	0

6.5 Other polymers [i](#)

There are no such residues in this entry.