



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2018 – 03:08 am GMT

PDB ID : 2I13
Title : Aart, a six finger zinc finger designed to recognize ANN triplets
Authors : Horton, N.C.; Segal, D.J.; Bhakta, M.; Crotty, J.W.; Barbas III, C.F.
Deposited on : 2006-08-12
Resolution : 1.96 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7.3 (157068), CSD as539be (2018)
Xtriage (Phenix) : 1.13
EDS : trunk30967
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk30967

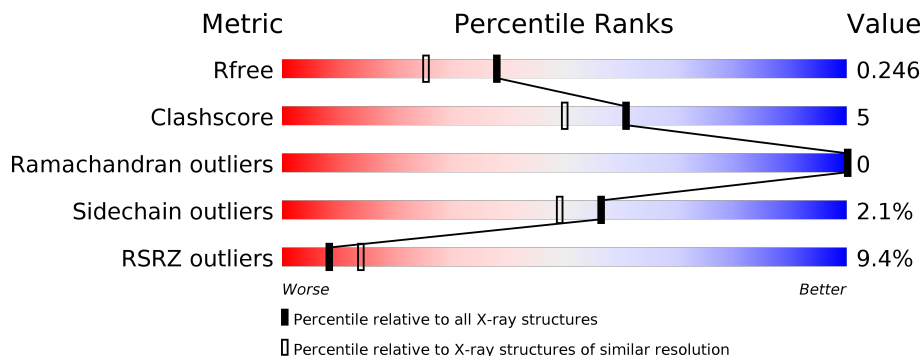
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.96 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}	111664	2220 (1.96-1.96)
Clashscore	122126	2333 (1.96-1.96)
Ramachandran outliers	120053	2314 (1.96-1.96)
Sidechain outliers	120020	2314 (1.96-1.96)
RSRZ outliers	108989	2174 (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 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	C	22	77% (green), 23% (yellow)
1	E	22	5% (red), 55% (green), 41% (yellow), 5% (orange)
2	D	22	68% (green), 23% (yellow), 9% (orange)
2	F	22	68% (green), 23% (yellow), 5% (orange), 5% (red)
3	A	190	10% (red), 75% (green), 21% (grey)
3	B	190	8% (red), 72% (green), 24% (grey)

2 Entry composition i

There are 6 unique types of molecules in this entry. The entry contains 4534 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 DNA chain called 5'-D(*CP*AP*GP*AP*TP*GP*TP*AP*GP*GP*GP*AP*AP*AP*AP*GP*CP*CP*CP*GP*GP*G)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	C	22	Total 458	C 216	N 96	O 125	P 21	0	0	0
1	E	22	Total 458	C 216	N 96	O 125	P 21	0	0	0

- Molecule 2 is a DNA chain called 5'-D(*GP*CP*CP*CP*GP*GP*GP*CP*TP*TP*TP*TP*CP*CP*CP*TP*AP*CP*AP*TP*CP*T)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	D	22	Total 438	C 211	N 71	O 135	P 21	0	0	0
2	F	22	Total 438	C 211	N 71	O 135	P 21	0	0	0

- Molecule 3 is a protein called Aart.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	A	151	Total 1182	C 722	N 239	O 211	S 10	0	0	0
3	B	144	Total 1108	C 669	N 223	O 206	S 10	0	0	0

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	C	1	Total C O 6 3 3	0	0
4	C	1	Total C O 6 3 3	0	0
4	E	1	Total C O 6 3 3	0	0
4	E	1	Total C O 6 3 3	0	0

- Molecule 5 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	B	5	Total Zn 5 5	0	0
5	A	6	Total Zn 6 6	0	0

- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	C	58	Total O 58 58	0	0
6	D	60	Total O 60 60	0	0
6	E	49	Total O 49 49	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	F	34	Total O 34 34	0	0
6	A	112	Total O 112 112	0	0
6	B	104	Total O 104 104	0	0

3 Residue-property plots

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: 5'-D(*CP*AP*GP*AP*TP*GP*TP*AP*GP*GP*GP*AP*AP*AP*AP*GP*CP*CP*CP*GP*GP*G)-3'

Chain C: 



- Molecule 1: 5'-D(*CP*AP*GP*AP*TP*GP*TP*AP*GP*GP*GP*AP*AP*AP*AP*GP*CP*CP*CP*GP*GP*G)-3'

Chain E: 



- Molecule 2: 5'-D(*GP*CP*CP*CP*GP*GP*GP*CP*TP*TP*TP*TP*CP*CP*CP*TP*AP*CP*AP*TP*CP*T)-3'

Chain D: 




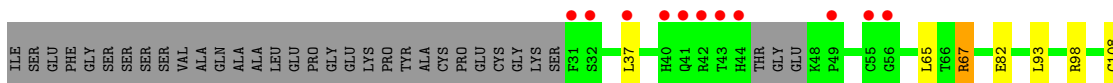
- Molecule 2: 5'-D(*GP*CP*CP*CP*GP*GP*GP*CP*TP*TP*TP*TP*CP*CP*CP*TP*AP*CP*AP*TP*CP*T)-3'

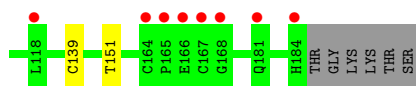
Chain F: 



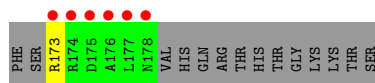
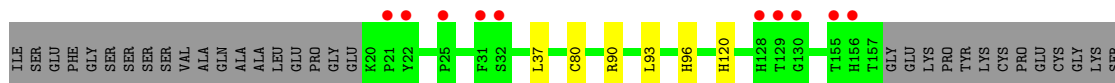
- Molecule 3: Aart

Chain A: 





- Molecule 3: Aart



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	41.59Å 72.05Å 74.21Å 75.53° 83.80° 72.67°	Depositor
Resolution (Å)	50.00 – 1.96 33.47 – 1.96	Depositor EDS
% Data completeness (in resolution range)	90.8 (50.00-1.96) 90.6 (33.47-1.96)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.28 (at 1.95Å)	Xtrriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.203 , 0.249 0.210 , 0.246	Depositor DCC
R_{free} test set	2609 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	40.9	Xtrriage
Anisotropy	0.211	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 56.9	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	4534	wwPDB-VP
Average B, all atoms (Å ²)	49.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.56% 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 i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, 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	C	1.07	0/517	1.01	2/798 (0.3%)
1	E	0.82	0/517	1.03	3/798 (0.4%)
2	D	0.92	1/487 (0.2%)	1.04	1/748 (0.1%)
2	F	0.78	0/487	1.02	1/748 (0.1%)
3	A	0.98	2/1216 (0.2%)	0.90	3/1636 (0.2%)
3	B	0.89	1/1138 (0.1%)	0.85	0/1533
All	All	0.93	4/4362 (0.1%)	0.95	10/6261 (0.2%)

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
1	C	0	1
2	D	0	2
2	F	0	4
All	All	0	7

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	108	CYS	CB-SG	6.51	1.93	1.82
3	A	139	CYS	CB-SG	5.60	1.91	1.82
3	B	80	CYS	CB-SG	5.29	1.91	1.82
2	D	12	DT	N1-C2	5.01	1.42	1.38

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	37	LEU	CA-CB-CG	6.40	130.02	115.30
3	A	67	ARG	NE-CZ-NH2	6.36	123.48	120.30
2	D	10	DT	OP2-P-O3'	6.19	118.82	105.20
1	C	13	DA	OP2-P-O3'	5.79	117.94	105.20
3	A	67	ARG	NE-CZ-NH1	-5.50	117.55	120.30
1	C	7	DT	OP2-P-O3'	5.28	116.81	105.20
2	F	6	DG	N9-C1'-C2'	-5.24	102.65	112.60
1	E	14	DA	OP2-P-O3'	5.22	116.68	105.20
1	E	12	DA	O4'-C4'-C3'	5.10	109.06	106.00
1	E	8	DA	OP2-P-O3'	5.08	116.37	105.20

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	16	DG	Sidechain
2	D	6	DG	Sidechain
2	D	7	DG	Sidechain
2	F	1	DG	Sidechain
2	F	4	DC	Sidechain
2	F	5	DG	Sidechain
2	F	6	DG	Sidechain

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	C	458	0	246	2	0
1	E	458	0	246	11	0
2	D	438	0	251	6	0
2	F	438	0	251	12	0
3	A	1182	0	1073	3	0
3	B	1108	0	982	4	0
4	C	12	0	16	0	0
4	E	12	0	16	0	0
5	A	6	0	0	0	0
5	B	5	0	0	0	0
6	A	112	0	0	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	B	104	0	0	1	0
6	C	58	0	0	1	0
6	D	60	0	0	0	0
6	E	49	0	0	0	0
6	F	34	0	0	2	0
All	All	4534	0	3081	35	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 5.

All (35) 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:E:11:DG:H2''	1:E:12:DA:H5''	1.58	0.84
2:D:5:DG:H2''	2:D:6:DG:H5''	1.60	0.83
2:F:9:DT:OP2	6:F:25:HOH:O	2.05	0.73
2:D:21:DC:H2'	2:D:22:DT:H72	1.77	0.67
2:D:5:DG:H2''	2:D:6:DG:C5'	2.24	0.67
1:E:11:DG:C2'	1:E:12:DA:H5''	2.25	0.67
1:E:4:DA:H2''	1:E:5:DT:H5''	1.76	0.66
2:F:1:DG:H2''	2:F:2:DC:H5'	1.81	0.62
2:D:5:DG:C2'	2:D:6:DG:H5''	2.29	0.60
2:D:21:DC:H2'	2:D:22:DT:C7	2.33	0.59
2:F:1:DG:H2'	2:F:2:DC:C6	2.40	0.57
1:E:11:DG:H2''	1:E:12:DA:C5'	2.33	0.57
1:E:4:DA:C2'	1:E:5:DT:H5''	2.35	0.56
2:F:6:DG:H2''	2:F:7:DG:H5'	1.90	0.54
3:A:67:ARG:NE	6:A:507:HOH:O	2.40	0.54
1:E:4:DA:H2''	1:E:5:DT:C5'	2.40	0.52
2:D:6:DG:H2''	2:D:7:DG:O5'	2.12	0.49
3:A:151:THR:HG21	6:A:564:HOH:O	2.14	0.47
2:F:7:DG:OP2	3:B:90:ARG:HD2	2.15	0.47
2:F:1:DG:H2''	2:F:2:DC:C5'	2.44	0.47
1:E:5:DT:H2''	1:E:6:DG:H8	1.80	0.47
2:F:1:DG:H5'	2:F:1:DG:H8	1.81	0.46
2:F:6:DG:OP1	3:B:90:ARG:NH2	2.50	0.45
1:C:9:DG:OP2	6:C:620:HOH:O	2.21	0.45
2:F:1:DG:H5'	6:B:513:HOH:O	2.16	0.45
1:E:12:DA:H2''	1:E:13:DA:C8	2.51	0.44
2:F:1:DG:C8	2:F:1:DG:H5'	2.53	0.44
1:E:5:DT:H2''	1:E:6:DG:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:11:DG:N7	3:B:120:HIS:CE1	2.87	0.42
2:F:1:DG:H1'	6:F:29:HOH:O	2.20	0.42
2:F:6:DG:H2''	2:F:7:DG:C5'	2.49	0.41
3:A:98:ARG:HD2	6:A:573:HOH:O	2.20	0.41
3:B:93:LEU:O	3:B:96:HIS:HB3	2.20	0.41
1:E:1:DC:H2''	1:E:2:DA:C8	2.56	0.41
1:C:19:DC:H6	1:C:19:DC:H5'	1.86	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	
3	A	147/190 (77%)	146 (99%)	1 (1%)	0	100	100
3	B	140/190 (74%)	138 (99%)	2 (1%)	0	100	100
All	All	287/380 (76%)	284 (99%)	3 (1%)	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	
3	A	121/165 (73%)	118 (98%)	3 (2%)	50	40

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	B	112/165 (68%)	110 (98%)	2 (2%)	62	56
All	All	233/330 (71%)	228 (98%)	5 (2%)	56	49

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	A	65	LEU
3	A	82	GLU
3	A	93	LEU
3	B	37	LEU
3	B	173	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
3	B	120	HIS

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 15 ligands modelled in this entry, 11 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	GOL	C	601	-	5,5,5	0.95	0	5,5,5	2.27	1 (20%)
4	GOL	C	602	-	5,5,5	0.42	0	5,5,5	1.11	1 (20%)
4	GOL	E	603	-	5,5,5	0.51	0	5,5,5	1.72	1 (20%)
4	GOL	E	604	-	5,5,5	0.35	0	5,5,5	1.78	2 (40%)

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	GOL	C	601	-	-	0/4/4/4	0/0/0/0
4	GOL	C	602	-	-	0/4/4/4	0/0/0/0
4	GOL	E	603	-	-	0/4/4/4	0/0/0/0
4	GOL	E	604	-	-	0/4/4/4	0/0/0/0

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	602	GOL	C3-C2-C1	2.22	120.16	111.63
4	E	604	GOL	O2-C2-C1	2.22	119.14	109.00
4	E	604	GOL	O2-C2-C3	2.55	120.63	109.00
4	E	603	GOL	C3-C2-C1	3.39	124.68	111.63
4	C	601	GOL	C3-C2-C1	4.97	130.76	111.63

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

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	C	22/22 (100%)	0.51	0 100 100	27, 43, 67, 70	0
1	E	22/22 (100%)	0.23	1 (4%) 33 43	29, 53, 67, 77	0
2	D	22/22 (100%)	0.28	0 100 100	31, 49, 67, 71	0
2	F	22/22 (100%)	-0.04	0 100 100	38, 50, 72, 77	0
3	A	151/190 (79%)	0.89	19 (12%) 3 6	22, 42, 86, 101	0
3	B	144/190 (75%)	0.74	16 (11%) 5 9	26, 48, 73, 98	0
All	All	383/468 (81%)	0.69	36 (9%) 8 14	22, 46, 76, 101	0

All (36) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	A	43	THR	8.5
3	A	41	GLN	7.3
3	A	37	LEU	6.3
3	B	174	ARG	6.3
3	A	31	PHE	5.8
3	A	42	ARG	5.8
3	B	177	LEU	5.0
3	A	49	PRO	4.6
3	A	40	HIS	4.1
3	A	164	CYS	4.1
3	B	129	THR	4.0
3	B	31	PHE	4.0
3	B	130	GLY	3.9
3	A	44	HIS	3.8
3	A	165	PRO	3.8
3	B	178	ASN	3.6
3	A	55	CYS	3.4
3	B	128	HIS	3.4
3	B	22	TYR	3.4

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Mol	Chain	Res	Type	RSRZ
3	A	32	SER	3.2
3	B	176	ALA	3.0
3	B	156	HIS	2.8
3	A	167	CYS	2.7
3	A	168	GLY	2.7
3	B	32	SER	2.6
3	B	21	PRO	2.5
3	A	166	GLU	2.5
3	A	184	HIS	2.4
1	E	1	DC	2.4
3	B	173	ARG	2.3
3	B	155	THR	2.3
3	B	25	PRO	2.3
3	A	181	GLN	2.2
3	B	175	ASP	2.2
3	A	56	GLY	2.2
3	A	118	LEU	2.1

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. 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	GOL	E	604	6/6	0.87	0.27	53,56,56,57	0
5	ZN	A	501	1/1	0.91	0.06	96,96,96,96	0
4	GOL	E	603	6/6	0.91	0.19	31,34,36,39	0
4	GOL	C	601	6/6	0.92	0.27	26,32,34,36	0
4	GOL	C	602	6/6	0.94	0.32	30,33,38,38	0
5	ZN	A	505	1/1	0.97	0.06	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
5	ZN	B	509	1/1	0.98	0.06	48,48,48,48	0
5	ZN	A	506	1/1	0.98	0.07	49,49,49,49	0
5	ZN	A	504	1/1	0.98	0.06	41,41,41,41	0
5	ZN	B	510	1/1	0.98	0.03	56,56,56,56	0
5	ZN	B	508	1/1	0.99	0.10	36,36,36,36	0
5	ZN	B	507	1/1	0.99	0.04	54,54,54,54	0
5	ZN	B	512	1/1	0.99	0.10	36,36,36,36	0
5	ZN	A	502	1/1	1.00	0.10	33,33,33,33	0
5	ZN	A	503	1/1	1.00	0.10	36,36,36,36	0

6.5 Other polymers [i](#)

There are no such residues in this entry.