



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 06:47 AM GMT

PDB ID : 2YC1
Title : CRYSTAL STRUCTURE OF THE HUMAN DERIVED SINGLE CHAIN ANTIBODY FRAGMENT (SCFV) 9004G IN COMPLEX WITH CN2 TOXIN FROM THE SCORPION CENTRUROIDES NOXIUS HOFFMANN
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Deposited on : 2011-03-10
Resolution : 1.90 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

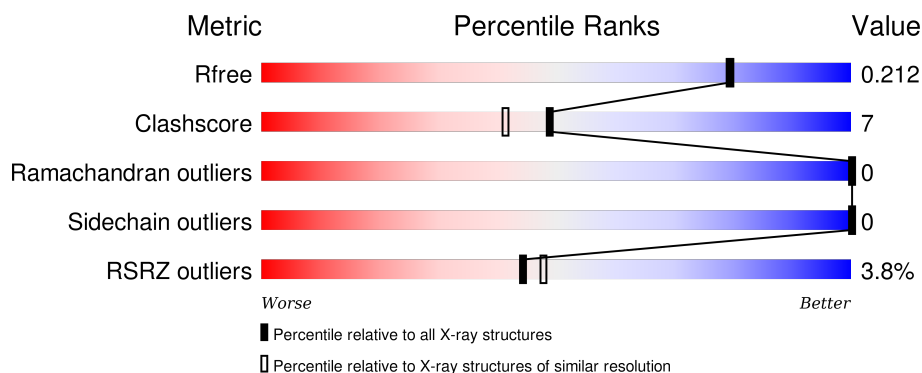
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 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}	91344	4755 (1.90-1.90)
Clashscore	102246	5398 (1.90-1.90)
Ramachandran outliers	100387	5338 (1.90-1.90)
Sidechain outliers	100360	5339 (1.90-1.90)
RSRZ outliers	91569	4766 (1.90-1.90)

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	117	<div> <div></div> <div>91% 9%</div> </div>
1	D	117	<div> <div></div> <div>91% 9%</div> </div>
2	B	146	<div> <div>7%</div> <div>68% 5% 26%</div> </div>
2	E	146	<div> <div>5%</div> <div>64% 10% 26%</div> </div>
3	C	66	<div> <div>2%</div> <div>82% 17% .</div> </div>

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Mol	Chain	Length	Quality of chain
3	F	66	

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	GOL	A	1118	-	-	-	X
4	GOL	C	1066	-	-	X	-
4	GOL	C	1068	-	-	-	X
4	GOL	D	1118	-	-	X	X
4	GOL	E	1240	-	-	X	-
4	GOL	E	1241	-	-	-	X
4	GOL	E	1242	-	-	X	-
4	GOL	F	1066	-	-	-	X

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 5154 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 SINGLE CHAIN ANTIBODY FRAGMENT 9004G.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	117	Total	C	N	O	S	0	3	0
			887	549	153	179	6			
1	D	117	Total	C	N	O	S	0	3	0
			887	549	153	179	6			

- Molecule 2 is a protein called SINGLE CHAIN ANTIBODY FRAGMENT 9004G.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	108	Total	C	N	O	S	0	3	0
			848	532	146	168	2			
2	E	108	Total	C	N	O	S	0	3	0
			848	532	146	168	2			

- Molecule 3 is a protein called BETA-MAMMAL TOXIN CN2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	65	Total	C	N	O	S	0	1	0
			531	338	91	94	8			
3	F	65	Total	C	N	O	S	0	1	0
			531	338	91	94	8			

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



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

- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	131	Total O 131 131	0	0
5	B	86	Total O 86 86	0	0
5	C	67	Total O 67 67	0	0

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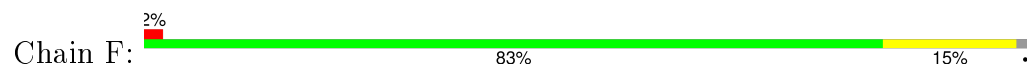
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	D	144	Total 144	O 144	0	0
5	E	72	Total 72	O 72	0	0
5	F	68	Total 68	O 68	0	0

• Molecule 1: SINGLE CHAIN ANTIBODY FRAGMENT 9004G





• Molecule 3: BETA-MAMMAL TOXIN CN2



4 Data and refinement statistics

Property	Value	Source
Space group	F 2 3	Depositor
Cell constants a, b, c, α , β , γ	219.71Å 219.71Å 219.71Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.28 – 1.90 42.28 – 1.90	Depositor EDS
% Data completeness (in resolution range)	100.0 (42.28-1.90) 100.0 (42.28-1.90)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.95 (at 1.89Å)	Xtriage
Refinement program	REFMAC 5.5.0102	Depositor
R, R_{free}	0.186 , 0.212 0.186 , 0.212	Depositor DCC
R_{free} test set	3488 reflections (5.34%)	DCC
Wilson B-factor (Å ²)	20.2	Xtriage
Anisotropy	0.000	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 49.0	EDS
Estimated twinning fraction	0.489 for k,h,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 68857 reflections	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5154	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.19% 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: GOL

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	0.38	0/912	0.59	0/1231
1	D	0.37	0/912	0.58	0/1231
2	B	0.34	0/876	0.56	0/1189
2	E	0.33	0/876	0.55	0/1189
3	C	0.37	0/548	0.50	0/737
3	F	0.37	0/548	0.50	0/737
All	All	0.36	0/4672	0.55	0/6314

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	887	0	852	14	0
1	D	887	0	852	14	0
2	B	848	0	828	5	0
2	E	848	0	828	14	0
3	C	531	0	505	11	0
3	F	531	0	505	11	0
4	A	6	0	8	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	C	18	0	24	6	0
4	D	6	0	8	4	0
4	E	18	0	24	8	0
4	F	6	0	8	1	0
5	A	131	0	0	1	0
5	B	86	0	0	0	0
5	C	67	0	0	2	0
5	D	144	0	0	2	0
5	E	72	0	0	2	0
5	F	68	0	0	0	0
All	All	5154	0	4442	65	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 7.

All (65) 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:E:177:ARG:HH12	4:E:1241:GOL:H12	1.08	1.05
1:D:82:GLN:HE22	4:D:1118:GOL:H12	1.28	0.97
3:C:34:GLY:HA3	4:C:1066:GOL:H2	1.50	0.94
1:A:82:GLN:HE22	4:A:1118:GOL:H12	1.30	0.93
2:E:177:ARG:HH12	4:E:1241:GOL:C1	1.87	0.88
1:A:76:LYS:HE3	1:D:76:LYS:HE3	1.60	0.84
1:A:39:GLN:HE22	2:B:170:GLN:HE22	1.26	0.81
3:F:24:TYR:HA	3:F:27[B]:ARG:NH1	1.95	0.81
1:D:39:GLN:HE22	2:E:170:GLN:HE22	1.27	0.78
2:E:177:ARG:NH1	4:E:1241:GOL:H12	1.94	0.77
1:A:82:GLN:HE22	4:A:1118:GOL:C1	1.99	0.75
1:D:82:GLN:HE22	4:D:1118:GOL:C1	2.01	0.71
4:C:1066:GOL:H32	4:C:1067:GOL:O2	1.91	0.69
4:C:1066:GOL:H11	4:C:1067:GOL:O3	1.96	0.66
1:A:82:GLN:NE2	4:A:1118:GOL:H12	2.07	0.65
3:C:24:TYR:HA	3:C:27[B]:ARG:NH1	2.13	0.62
2:E:215:PHE:CZ	2:E:238:ILE:HD13	2.34	0.62
2:E:215:PHE:CE2	2:E:238:ILE:HD13	2.38	0.58
2:E:172:PRO:HA	5:E:2030:HOH:O	2.06	0.56
1:A:76:LYS:CE	1:D:76:LYS:HE3	2.35	0.55
3:C:26:LEU:HD11	3:C:30:LYS:HE2	1.89	0.55
1:A:2:VAL:HG13	1:A:27:PHE:CD1	2.42	0.54
4:E:1240:GOL:O3	4:E:1242:GOL:H11	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:146:SER:O	2:B:149:GLU:HB2	2.07	0.53
4:C:1066:GOL:H12	4:C:1068:GOL:O1	2.09	0.52
3:F:24:TYR:HA	3:F:27[B]:ARG:CZ	2.39	0.51
3:F:26:LEU:HD11	3:F:30:LYS:HE2	1.92	0.50
2:E:235:LYS:HE2	2:E:237:GLU:HG3	1.93	0.50
1:A:58:ILE:O	3:C:18:LYS:HE3	2.11	0.50
4:E:1240:GOL:O2	4:E:1242:GOL:H11	2.12	0.50
1:A:19:ARG:NH2	5:A:2025:HOH:O	2.43	0.50
1:D:82:GLN:NE2	4:D:1118:GOL:H12	2.12	0.49
3:F:4:TYR:HB2	3:F:58:TRP:HB3	1.95	0.48
3:F:24:TYR:CA	3:F:27[B]:ARG:NH1	2.72	0.48
3:C:56:ILE:HD13	5:C:2062:HOH:O	2.14	0.47
1:A:76:LYS:HE3	1:D:76:LYS:CE	2.36	0.47
1:A:2:VAL:HG22	1:A:27:PHE:HB3	1.96	0.47
2:E:224:ARG:HH22	4:E:1240:GOL:H31	1.80	0.47
3:F:50:HIS:O	4:F:1066:GOL:H31	2.14	0.46
1:D:56:GLY:HA3	3:F:27[B]:ARG:NH2	2.30	0.46
4:E:1240:GOL:O2	4:E:1242:GOL:H32	2.16	0.46
1:D:56:GLY:CA	3:F:27[B]:ARG:NH2	2.79	0.45
1:A:4:LEU:HB3	1:A:96[A]:CYS:SG	2.56	0.45
2:B:215:PHE:CZ	2:B:238:ILE:HD13	2.51	0.45
2:E:180:PHE:CE2	2:E:186:ARG:HB3	2.53	0.43
3:C:56:ILE:CD1	5:C:2062:HOH:O	2.66	0.43
3:C:4:TYR:HB2	3:C:58:TRP:HB3	2.00	0.43
1:D:2:VAL:HG12	1:D:106:THR:HG21	2.00	0.43
2:E:238:ILE:HG12	5:E:2071:HOH:O	2.19	0.43
1:D:19:ARG:NH2	5:D:2029:HOH:O	2.51	0.42
2:B:171:LYS:HE2	2:B:213:GLU:O	2.19	0.42
2:E:160:SER:OG	4:E:1242:GOL:C3	2.67	0.42
3:C:50:HIS:O	4:C:1068:GOL:H32	2.19	0.42
1:D:58:ILE:O	3:F:18:LYS:HE3	2.19	0.42
3:C:26:LEU:CD1	3:C:30:LYS:HE2	2.50	0.42
4:C:1066:GOL:C3	4:C:1067:GOL:O2	2.63	0.41
1:D:102:GLY:HA3	2:E:223:TYR:CD2	2.55	0.41
1:D:4:LEU:HB3	1:D:96[A]:CYS:SG	2.61	0.41
1:A:102:GLY:HA3	2:B:223:TYR:CD2	2.55	0.41
2:E:133:GLU:HG2	2:E:227:PRO:HG2	2.02	0.41
1:A:56:GLY:CA	3:C:27[B]:ARG:NH2	2.84	0.41
3:F:2:GLU:HG2	3:F:49:THR:HA	2.03	0.41
3:F:24:TYR:HD1	3:F:27[B]:ARG:NH2	2.19	0.40
3:C:22:ASN:OD1	3:C:24:TYR:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1118:GOL:H11	5:D:2108:HOH:O	2.21	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	118/117 (101%)	115 (98%)	3 (2%)	0	100	100
1	D	118/117 (101%)	114 (97%)	4 (3%)	0	100	100
2	B	109/146 (75%)	106 (97%)	3 (3%)	0	100	100
2	E	109/146 (75%)	106 (97%)	3 (3%)	0	100	100
3	C	64/66 (97%)	64 (100%)	0	0	100	100
3	F	64/66 (97%)	63 (98%)	1 (2%)	0	100	100
All	All	582/658 (88%)	568 (98%)	14 (2%)	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	97/94 (103%)	97 (100%)	0	100	100
1	D	97/94 (103%)	97 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	B	94/111 (85%)	94 (100%)	0	100	100
2	E	94/111 (85%)	94 (100%)	0	100	100
3	C	55/55 (100%)	55 (100%)	0	100	100
3	F	55/55 (100%)	55 (100%)	0	100	100
All	All	492/520 (95%)	492 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	39	GLN
1	A	82	GLN
3	C	50	HIS
1	D	39	GLN
1	D	82	GLN
3	F	50	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](#)

9 ligands are modelled in this entry.

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	A	1118	-	5,5,5	0.25	0	5,5,5	0.37	0
4	GOL	C	1066	-	5,5,5	0.35	0	5,5,5	0.39	0
4	GOL	C	1067	-	5,5,5	0.38	0	5,5,5	0.29	0
4	GOL	C	1068	-	5,5,5	0.29	0	5,5,5	0.27	0
4	GOL	D	1118	-	5,5,5	0.30	0	5,5,5	0.43	0
4	GOL	E	1240	-	5,5,5	0.35	0	5,5,5	0.18	0
4	GOL	E	1241	-	5,5,5	0.36	0	5,5,5	0.53	0
4	GOL	E	1242	-	5,5,5	0.34	0	5,5,5	0.50	0
4	GOL	F	1066	-	5,5,5	0.32	0	5,5,5	0.33	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	GOL	A	1118	-	-	0/4/4/4	0/0/0/0
4	GOL	C	1066	-	-	0/4/4/4	0/0/0/0
4	GOL	C	1067	-	-	0/4/4/4	0/0/0/0
4	GOL	C	1068	-	-	0/4/4/4	0/0/0/0
4	GOL	D	1118	-	-	0/4/4/4	0/0/0/0
4	GOL	E	1240	-	-	0/4/4/4	0/0/0/0
4	GOL	E	1241	-	-	0/4/4/4	0/0/0/0
4	GOL	E	1242	-	-	0/4/4/4	0/0/0/0
4	GOL	F	1066	-	-	0/4/4/4	0/0/0/0

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.

9 monomers are involved in 22 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	1118	GOL	3	0
4	C	1066	GOL	5	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	C	1067	GOL	3	0
4	C	1068	GOL	2	0
4	D	1118	GOL	4	0
4	E	1240	GOL	4	0
4	E	1241	GOL	3	0
4	E	1242	GOL	4	0
4	F	1066	GOL	1	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	117/117 (100%)	-0.03	1 (0%) 85 87	9, 17, 32, 48	0
1	D	117/117 (100%)	-0.06	1 (0%) 85 87	9, 17, 32, 47	0
2	B	108/146 (73%)	0.31	10 (9%) 11 12	14, 26, 49, 61	0
2	E	108/146 (73%)	0.31	8 (7%) 17 19	14, 26, 47, 61	0
3	C	65/66 (98%)	-0.07	1 (1%) 76 79	11, 18, 39, 64	0
3	F	65/66 (98%)	-0.07	1 (1%) 76 79	12, 18, 40, 60	0
All	All	580/658 (88%)	0.08	22 (3%) 44 48	9, 20, 46, 64	0

All (22) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	1	GLU	4.2
1	A	1	GLU	4.0
2	E	239	LYS	3.9
3	F	62	ASN	3.8
3	C	62	ASN	3.7
2	E	148	GLY	3.4
2	B	148	GLY	3.0
2	B	239	LYS	3.0
2	B	238	ILE	2.9
2	E	238	ILE	2.9
2	B	209	SER	2.8
2	E	209	SER	2.7
2	B	144	SER	2.6
2	B	156	ARG	2.5
2	E	156	ARG	2.5
2	B	145	VAL	2.3
2	B	208	SER	2.2
2	E	145	VAL	2.2
2	E	208	SER	2.2

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Mol	Chain	Res	Type	RSRZ
2	B	143	LEU	2.2
2	B	215	PHE	2.1
2	E	215	PHE	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. 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(Å ²)	Q<0.9
4	GOL	F	1066	6/6	0.89	0.30	3.77	28,36,40,49	0
4	GOL	D	1118	6/6	0.91	0.25	3.44	25,34,44,46	0
4	GOL	C	1068	6/6	0.94	0.29	3.37	27,34,40,47	0
4	GOL	E	1241	6/6	0.79	0.20	2.84	39,42,48,51	0
4	GOL	A	1118	6/6	0.92	0.21	2.52	25,34,40,41	0
4	GOL	E	1242	6/6	0.75	0.21	1.97	25,32,41,45	0
4	GOL	C	1066	6/6	0.73	0.19	1.63	24,30,37,46	0
4	GOL	C	1067	6/6	0.87	0.16	0.62	41,42,44,52	0
4	GOL	E	1240	6/6	0.85	0.15	0.50	40,41,45,47	0

6.5 Other polymers [i](#)

There are no such residues in this entry.