



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 25, 2022 – 06:08 pm GMT

PDB ID : 6Z9U
Title : Crystal structure of a TSEN15-34 heterodimer.
Authors : Trowitzsch, S.; Sekulovski, S.
Deposited on : 2020-06-04
Resolution : 2.10 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 : 1.8.4, CSD as541be (2020)
Xtrriage (Phenix) : 1.13
EDS : 2.26
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0267
CCP4 : 7.1.010 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.26

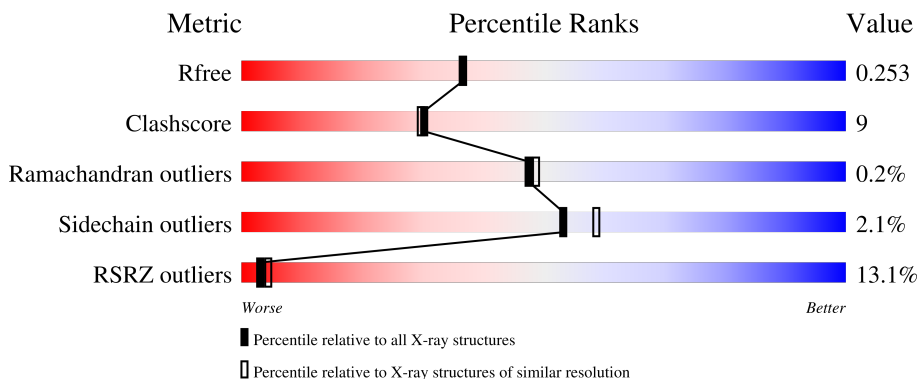
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (2.10-2.10)

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	104	
1	C	104	
2	B	167	
2	D	167	

2 Entry composition i

There are 4 unique types of molecules in this entry. The entry contains 3636 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 tRNA-splicing endonuclease subunit Sen34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	88	709	463	119	125	2	0	0	0
1	C	95	759	495	129	132	3	0	1	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	207	MET	-	initiating methionine	UNP Q9BSV6
C	207	MET	-	initiating methionine	UNP Q9BSV6

- Molecule 2 is a protein called tRNA-splicing endonuclease subunit Sen15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	127	996	640	155	193	8	0	0	0
2	D	134	1052	674	167	203	8	0	0	0

There are 38 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	4	MET	-	initiating methionine	UNP Q8WW01
B	5	GLY	-	expression tag	UNP Q8WW01
B	6	HIS	-	expression tag	UNP Q8WW01
B	7	HIS	-	expression tag	UNP Q8WW01
B	8	HIS	-	expression tag	UNP Q8WW01
B	9	HIS	-	expression tag	UNP Q8WW01
B	10	HIS	-	expression tag	UNP Q8WW01
B	11	HIS	-	expression tag	UNP Q8WW01
B	12	HIS	-	expression tag	UNP Q8WW01
B	13	HIS	-	expression tag	UNP Q8WW01

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Chain	Residue	Modelled	Actual	Comment	Reference
B	14	HIS	-	expression tag	UNP Q8WW01
B	15	HIS	-	expression tag	UNP Q8WW01
B	16	GLY	-	expression tag	UNP Q8WW01
B	17	GLU	-	expression tag	UNP Q8WW01
B	18	ASN	-	expression tag	UNP Q8WW01
B	19	LEU	-	expression tag	UNP Q8WW01
B	20	TYR	-	expression tag	UNP Q8WW01
B	21	PHE	-	expression tag	UNP Q8WW01
B	22	GLN	-	expression tag	UNP Q8WW01
D	4	MET	-	initiating methionine	UNP Q8WW01
D	5	GLY	-	expression tag	UNP Q8WW01
D	6	HIS	-	expression tag	UNP Q8WW01
D	7	HIS	-	expression tag	UNP Q8WW01
D	8	HIS	-	expression tag	UNP Q8WW01
D	9	HIS	-	expression tag	UNP Q8WW01
D	10	HIS	-	expression tag	UNP Q8WW01
D	11	HIS	-	expression tag	UNP Q8WW01
D	12	HIS	-	expression tag	UNP Q8WW01
D	13	HIS	-	expression tag	UNP Q8WW01
D	14	HIS	-	expression tag	UNP Q8WW01
D	15	HIS	-	expression tag	UNP Q8WW01
D	16	GLY	-	expression tag	UNP Q8WW01
D	17	GLU	-	expression tag	UNP Q8WW01
D	18	ASN	-	expression tag	UNP Q8WW01
D	19	LEU	-	expression tag	UNP Q8WW01
D	20	TYR	-	expression tag	UNP Q8WW01
D	21	PHE	-	expression tag	UNP Q8WW01
D	22	GLN	-	expression tag	UNP Q8WW01

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	26	Total O 26 26	0	0
4	B	24	Total O 24 24	0	0
4	C	19	Total O 19 19	0	0
4	D	39	Total O 39 39	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	34.85Å 69.28Å 94.79Å 90.00° 98.31° 90.00°	Depositor
Resolution (Å)	28.26 – 2.10 28.50 – 2.00	Depositor EDS
% Data completeness (in resolution range)	98.6 (28.26-2.10) 98.9 (28.50-2.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.31 (at 2.00Å)	Xtrriage
Refinement program	PHENIX 1.10.1_2155, PHENIX 1.10.1_2155	Depositor
R, R_{free}	0.192 , 0.253 0.193 , 0.253	Depositor DCC
R_{free} test set	1291 reflections (4.31%)	wwPDB-VP
Wilson B-factor (Å ²)	39.4	Xtrriage
Anisotropy	0.564	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	(Not available) , (Not available)	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtrriage
Estimated twinning fraction	0.024 for h,-k,-h-l	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	3636	wwPDB-VP
Average B, all atoms (Å ²)	60.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.23% 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

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	0.46	0/732	0.64	1/996 (0.1%)
1	C	0.44	0/787	0.57	0/1072
2	B	0.43	0/1017	0.64	0/1383
2	D	0.41	0/1074	0.58	0/1462
All	All	0.43	0/3610	0.61	1/4913 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	219	LEU	CA-CB-CG	5.87	128.81	115.30

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	709	0	684	15	0
1	C	759	0	744	21	0
2	B	996	0	994	18	0
2	D	1052	0	1052	23	0
3	D	12	0	16	0	0
4	A	26	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	24	0	0	0	0
4	C	19	0	0	0	0
4	D	39	0	0	1	0
All	All	3636	0	3490	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 9.

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:D:84:LEU:HB2	2:D:89:LEU:HD21	1.36	1.08
2:D:87:LEU:HB2	2:D:89:LEU:HD22	1.37	1.03
2:B:110:ILE:HD11	1:C:272:GLN:HA	1.70	0.74
2:D:84:LEU:HB2	2:D:89:LEU:CD2	2.18	0.72
2:B:116:HIS:ND1	1:C:292:SER:OG	2.24	0.71
1:A:220:ARG:NH2	1:A:242:GLY:O	2.26	0.69
2:B:37:ASP:HB3	2:B:40:MET:HE2	1.75	0.69
2:D:104:THR:H	2:D:130:GLN:HE21	1.38	0.68
2:D:87:LEU:HB2	2:D:89:LEU:CD2	2.21	0.68
2:D:77:HIS:CD2	2:D:98:GLU:HB2	2.30	0.66
1:A:223:ILE:HD12	1:C:262[A]:CYS:SG	2.35	0.66
1:C:280:LEU:HB2	1:C:282:THR:HG23	1.79	0.64
1:C:259:ILE:HD11	1:C:286:LYS:HE3	1.79	0.64
2:B:159:PHE:HB3	1:C:258:TYR:OH	2.00	0.62
2:B:43:HIS:HD2	2:B:45:LYS:H	1.47	0.61
1:C:280:LEU:HB2	1:C:282:THR:CG2	2.33	0.58
1:A:235:SER:HA	1:C:228:TRP:CD1	2.40	0.57
2:B:110:ILE:HD13	1:C:275:VAL:HG21	1.87	0.57
2:B:37:ASP:HB3	2:B:40:MET:CE	2.35	0.56
2:D:89:LEU:H	2:D:89:LEU:HD23	1.71	0.55
2:D:134:ASP:OD2	2:D:134:ASP:N	2.39	0.55
1:A:220:ARG:NH1	1:A:224:TYR:OH	2.40	0.54
1:A:244:PHE:HE2	1:C:262[B]:CYS:HG	1.54	0.54
2:B:40:MET:HE1	2:B:61:TYR:HE1	1.74	0.53
2:B:89:LEU:HG	2:B:118:ARG:NH2	2.24	0.53
2:D:96:GLU:HB3	2:D:100:GLU:OE1	2.08	0.53
2:B:40:MET:CE	2:B:61:TYR:HE1	2.23	0.52
1:C:225:ARG:O	1:C:229:GLU:HG2	2.10	0.51
2:D:104:THR:H	2:D:130:GLN:NE2	2.08	0.51
1:C:293:PRO:HA	1:C:299:VAL:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:104:THR:N	2:D:130:GLN:HE21	2.08	0.51
1:A:282:THR:HG21	1:A:305:GLN:HA	1.93	0.50
1:A:219:LEU:HD13	1:C:262[A]:CYS:SG	2.52	0.50
2:D:89:LEU:HD23	2:D:89:LEU:N	2.26	0.50
1:C:296:ASP:HB3	1:C:298:LYS:HD3	1.93	0.49
2:B:110:ILE:HG23	2:B:111:THR:HG23	1.93	0.49
1:A:221:TYR:O	1:A:225:ARG:HG3	2.12	0.49
2:B:43:HIS:CD2	2:B:45:LYS:H	2.29	0.48
1:A:223:ILE:HD13	1:C:291:CYS:HB2	1.96	0.48
1:A:282:THR:HG21	1:A:306:TRP:H	1.79	0.48
2:D:97:ILE:O	2:D:100:GLU:HG2	2.14	0.48
2:B:74:LYS:HE3	1:C:309:LEU:HB3	1.97	0.47
2:D:87:LEU:HB3	2:D:118:ARG:HH12	1.79	0.47
2:D:87:LEU:CB	2:D:89:LEU:HD22	2.27	0.47
1:A:288:LEU:HD23	1:A:304:LEU:HD13	1.97	0.47
2:D:82:VAL:HG22	2:D:91:CYS:HB2	1.97	0.47
2:D:169:LEU:O	2:D:170:ARG:HB2	2.15	0.47
2:D:138:SER:HB2	2:D:154:LYS:HE2	1.97	0.46
2:D:63:ALA:HA	2:D:107:PRO:HG2	1.96	0.46
2:B:62:VAL:HG21	2:B:109:PRO:HD3	1.97	0.46
2:D:45:LYS:HG3	2:D:67:TYR:CZ	2.52	0.45
1:A:291:CYS:HB2	1:C:223:ILE:HD13	1.98	0.45
1:C:220:ARG:HD3	1:C:240:PHE:CD2	2.51	0.45
1:C:296:ASP:HB3	1:C:298:LYS:CD	2.47	0.45
1:A:293:PRO:HA	1:A:299:VAL:HA	1.99	0.44
2:B:133:PRO:HB2	2:B:134:ASP:H	1.57	0.44
2:D:112:ALA:O	4:D:301:HOH:O	2.21	0.43
1:A:228:TRP:CE2	1:A:234:LEU:HD12	2.53	0.43
2:D:147:ASP:OD1	2:D:149:THR:HG22	2.19	0.43
1:A:235:SER:HA	1:C:228:TRP:NE1	2.35	0.41
2:B:43:HIS:CD2	2:B:44:PRO:HD2	2.56	0.41
2:B:127:ARG:NE	2:B:132:ASP:OD2	2.54	0.41
2:D:84:LEU:O	2:D:89:LEU:HD23	2.20	0.41
1:C:239:LYS:HA	1:C:239:LYS:HD2	1.92	0.40
2:B:86:GLU:HG2	2:B:87:LEU:H	1.87	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	84/104 (81%)	81 (96%)	3 (4%)	0	100	100
1	C	94/104 (90%)	93 (99%)	1 (1%)	0	100	100
2	B	125/167 (75%)	120 (96%)	4 (3%)	1 (1%)	19	15
2	D	132/167 (79%)	129 (98%)	3 (2%)	0	100	100
All	All	435/542 (80%)	423 (97%)	11 (2%)	1 (0%)	47	49

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	133	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	74/85 (87%)	72 (97%)	2 (3%)	44	48
1	C	79/85 (93%)	76 (96%)	3 (4%)	33	34
2	B	113/144 (78%)	110 (97%)	3 (3%)	44	48
2	D	120/144 (83%)	119 (99%)	1 (1%)	81	86
All	All	386/458 (84%)	377 (98%)	9 (2%)	53	55

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	219	LEU
1	A	274	LEU
2	B	91	CYS
2	B	134	ASP
2	B	135	LEU
1	C	262[A]	CYS
1	C	262[B]	CYS
1	C	298	LYS
2	D	136	PRO

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	217	HIS
2	B	43	HIS
1	C	217	HIS
2	D	77	HIS
2	D	130	GLN

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](#)

2 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$
3	GOL	D	202	-	5,5,5	0.41	0	5,5,5	0.11	0
3	GOL	D	201	-	5,5,5	0.27	0	5,5,5	0.42	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
3	GOL	D	202	-	-	2/4/4/4	-
3	GOL	D	201	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	D	201	GOL	C1-C2-C3-O3
3	D	201	GOL	O2-C2-C3-O3
3	D	202	GOL	O1-C1-C2-C3
3	D	202	GOL	O1-C1-C2-O2

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	88/104 (84%)	0.82	13 (14%) 2 3	34, 52, 88, 119	0
1	C	95/104 (91%)	0.99	17 (17%) 1 1	34, 56, 100, 114	0
2	B	127/167 (76%)	0.83	18 (14%) 2 3	37, 54, 109, 124	0
2	D	134/167 (80%)	0.42	10 (7%) 14 18	33, 56, 89, 119	0
All	All	444/542 (81%)	0.74	58 (13%) 3 4	33, 55, 100, 124	0

All (58) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	73	SER	10.8
1	A	284	VAL	6.1
1	C	216	ALA	5.5
1	A	308	SER	4.8
2	D	165	GLN	4.8
2	B	91	CYS	4.8
1	C	306	TRP	4.4
1	C	281	GLY	4.4
2	D	146	SER	4.4
2	B	99	GLY	4.3
1	C	275	VAL	4.2
1	A	309	LEU	4.1
1	A	217	HIS	3.8
1	C	285	ARG	3.7
2	B	82	VAL	3.5
2	D	97	ILE	3.5
1	A	274	LEU	3.4
1	C	286	LYS	3.3
2	B	100	GLU	3.3
1	A	295	PRO	3.2
1	C	284	VAL	3.2

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Mol	Chain	Res	Type	RSRZ
2	B	92	LEU	3.2
1	A	281	GLY	3.2
1	A	266	GLU	3.2
1	C	282	THR	3.1
1	C	297	GLY	3.1
1	C	296	ASP	3.0
1	C	295	PRO	3.0
2	B	135	LEU	3.0
1	A	216	ALA	2.9
2	B	134	ASP	2.8
2	B	90	ILE	2.6
2	B	97	ILE	2.5
2	B	106	VAL	2.5
1	C	254	PHE	2.5
1	C	219	LEU	2.4
2	D	162	PRO	2.4
2	D	166	ASN	2.4
2	B	93	VAL	2.4
1	C	253	ARG	2.4
2	B	104	THR	2.4
2	D	73	SER	2.4
1	C	221	TYR	2.4
2	B	146	SER	2.3
1	A	265	PRO	2.3
1	A	294	GLN	2.3
2	D	169	LEU	2.3
2	B	36	GLU	2.2
2	D	98	GLU	2.2
2	D	163	ASP	2.2
2	D	149	THR	2.2
1	A	282	THR	2.2
2	B	132	ASP	2.2
1	A	218	GLU	2.2
2	B	139	PHE	2.1
1	C	240	PHE	2.1
1	C	279	ARG	2.1
2	B	49	MET	2.1

6.2 Non-standard residues in protein, DNA, RNA chains

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
3	GOL	D	202	6/6	0.64	0.17	80,94,102,102	0
3	GOL	D	201	6/6	0.77	0.24	42,64,72,73	0

6.5 Other polymers [i](#)

There are no such residues in this entry.