



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 5, 2026 – 03:14 AM UTC

PDB ID : 9PBG / pdb_00009pbg
Title : TCR 19.2 complex with YEIH-HLA B*27:05
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Deposited on : 2025-06-26
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 ⓘ 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 ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

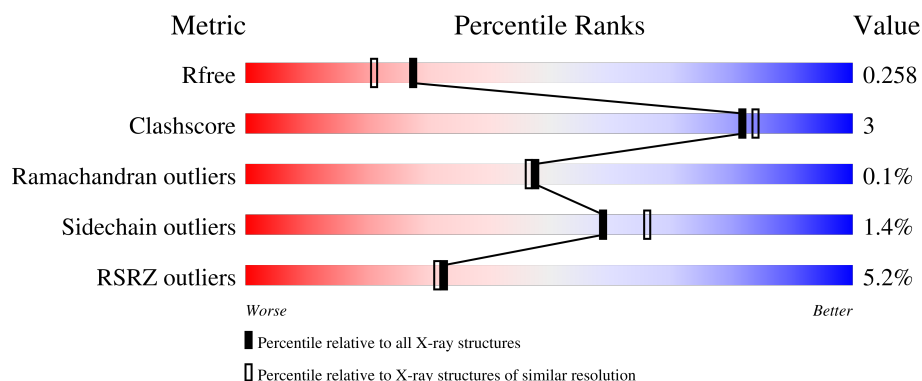
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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}	180053	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (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 $\leq 5\%$. 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	279	 2% 91% 8%
2	B	100	 93% 7%
3	C	9	 100%
4	D	210	 10% 85% 10%
5	E	244	 7% 91% 7%

2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 6848 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 MHC class I antigen.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	276	Total	C	N	O	S	0	1	0
			2254	1403	408	437	6			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	MET	-	initiating methionine	UNP A3F718
A	67	SER	CYS	engineered mutation	UNP A3F718

- Molecule 2 is a protein called Beta-2-microglobulin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	100	Total	C	N	O	S	0	0	0
			837	533	141	159	4			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	0	MET	-	initiating methionine	UNP P61769

- Molecule 3 is a protein called UPF0324 inner membrane protein YeiH.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	9	Total	C	N	O	S	0	0	0
			74	50	12	10	2			

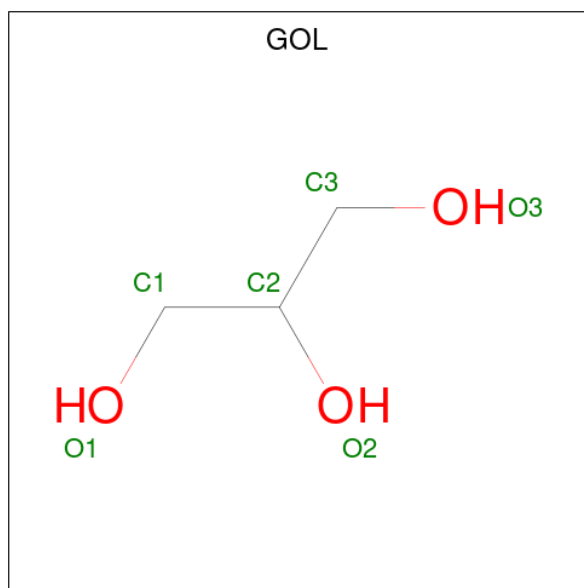
- Molecule 4 is a protein called TCR 19.2 alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	201	Total	C	N	O	S	0	0	0
			1523	944	257	315	7			

- Molecule 5 is a protein called TCR19.2 beta chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	241	Total	C	N	O	S	0	0	0
			1922	1213	332	372	5			

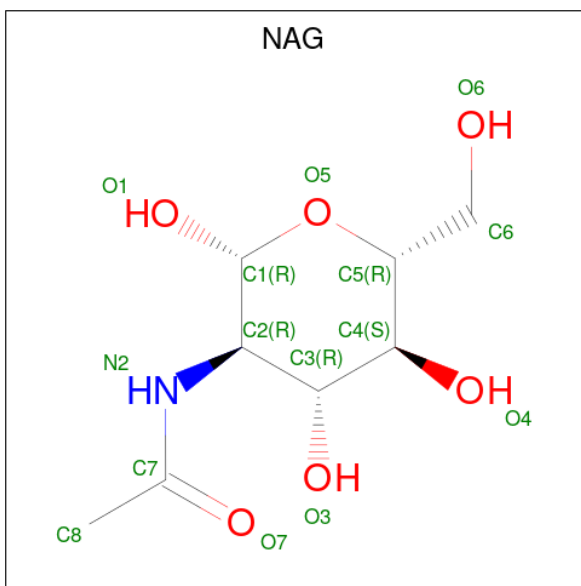
- Molecule 6 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 7 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula:

C₈H₁₅NO₆).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
7	D	1	Total	C	N	O	0	0
			14	8	1	5		
7	E	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	77	Total	O	0	0
			77	77		
8	B	21	Total	O	0	0
			21	21		
8	C	3	Total	O	0	0
			3	3		
8	D	22	Total	O	0	0
			22	22		
8	E	33	Total	O	0	0
			33	33		

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: MHC class I antigen

Chain A: 



- Molecule 2: Beta-2-microglobulin

Chain B: 




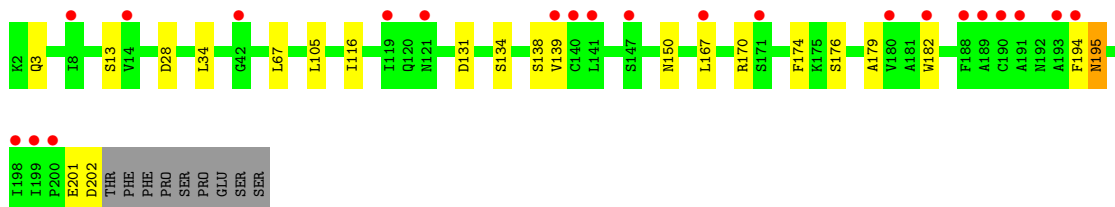
- Molecule 3: UPF0324 inner membrane protein YeiH

Chain C: 


There are no outlier residues recorded for this chain.

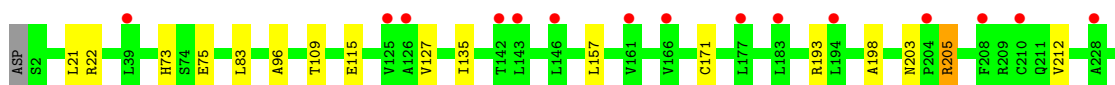
- Molecule 4: TCR 19.2 alpha chain

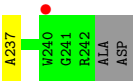
Chain D: 



- Molecule 5: TCR19.2 beta chain

Chain E: 





4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	84.84Å 52.68Å 102.04Å 90.00° 96.51° 90.00°	Depositor
Resolution (Å)	46.75 – 2.00 46.75 – 2.00	Depositor EDS
% Data completeness (in resolution range)	97.5 (46.75-2.00) 82.5 (46.75-2.00)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.13 (at 2.00Å)	Xtriage
Refinement program	PHENIX 1.21.2_5419	Depositor
R, R_{free}	0.220 , 0.258 0.220 , 0.258	Depositor DCC
R_{free} test set	2152 reflections (2.41%)	wwPDB-VP
Wilson B-factor (Å ²)	30.1	Xtriage
Anisotropy	0.928	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 57.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	6848	wwPDB-VP
Average B, all atoms (Å ²)	72.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.16% 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, NAG

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	0.10	0/2319	0.28	0/3155
2	B	0.09	0/860	0.28	0/1162
3	C	0.12	0/75	0.29	0/98
4	D	0.10	0/1548	0.29	0/2098
5	E	0.09	0/1974	0.25	0/2691
All	All	0.10	0/6776	0.27	0/9204

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	2254	0	2114	12	0
2	B	837	0	803	4	0
3	C	74	0	85	0	0
4	D	1523	0	1477	11	0
5	E	1922	0	1825	9	0
6	A	30	0	40	1	0
6	B	12	0	16	0	0
6	D	6	0	8	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	E	6	0	8	0	0
7	D	14	0	13	0	0
7	E	14	0	13	0	0
8	A	77	0	0	0	0
8	B	21	0	0	0	0
8	C	3	0	0	0	0
8	D	22	0	0	0	0
8	E	33	0	0	0	0
All	All	6848	0	6402	33	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 3.

All (33) 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)
4:D:3:GLN:HG3	4:D:28:ASP:HB2	1.66	0.76
5:E:22:ARG:HG2	5:E:75:GLU:HG2	1.81	0.63
1:A:14:ARG:HB3	1:A:17:ARG:HB3	1.83	0.61
5:E:21:LEU:HD22	5:E:109:THR:HG21	1.85	0.59
1:A:214:THR:HB	1:A:262:GLN:HB2	1.86	0.58
5:E:83:LEU:HD21	5:E:115:GLU:HG3	1.86	0.58
4:D:167:LEU:HB3	5:E:171:CYS:HB2	1.87	0.56
1:A:44:ARG:HD2	1:A:64:THR:HG21	1.89	0.55
5:E:203:ASN:HD21	5:E:205:ARG:HE	1.58	0.52
1:A:258:THR:HG22	1:A:273:ARG:HG2	1.91	0.51
1:A:19:GLU:HB3	1:A:75:ARG:HE	1.76	0.50
5:E:135:ILE:HG23	5:E:198:ALA:HB1	1.96	0.48
2:B:24:ASN:HB3	2:B:65:LEU:HD11	1.95	0.48
5:E:127:VAL:HG13	5:E:237:ALA:HB3	1.97	0.47
4:D:131:ASP:HB3	4:D:134:SER:O	2.15	0.46
1:A:61:ASP:O	1:A:65:GLN:HG2	2.16	0.45
1:A:134:THR:HA	6:A:303:GOL:H32	1.97	0.45
5:E:157:LEU:HG	5:E:212:VAL:HG22	1.99	0.45
2:B:15:ALA:HB3	2:B:97:ARG:HG2	1.97	0.44
1:A:24:THR:CG2	1:A:36:PHE:HB3	2.48	0.44
1:A:35:ARG:HG2	1:A:36:PHE:N	2.32	0.44
1:A:117:ALA:HB2	2:B:60:TRP:CE2	2.53	0.43
4:D:139:VAL:HG12	4:D:182:TRP:HB3	2.00	0.43
4:D:170:ARG:HA	4:D:170:ARG:HE	1.84	0.43
2:B:29:GLY:HA2	2:B:61:SER:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:105:LEU:HD12	4:D:105:LEU:HA	1.91	0.42
4:D:174:PHE:CE2	4:D:176:SER:HB2	2.54	0.42
4:D:13:SER:HB2	4:D:116:ILE:HD11	2.01	0.42
1:A:266:LEU:HD13	1:A:270:LEU:HG	2.02	0.42
1:A:49:ALA:O	1:A:52:ILE:HG22	2.21	0.41
4:D:34:LEU:HD13	4:D:67:LEU:HD13	2.01	0.41
4:D:195:ASN:C	4:D:195:ASN:HD22	2.29	0.40
4:D:179:ALA:HA	5:E:193:ARG:HH21	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	275/279 (99%)	266 (97%)	9 (3%)	0	100	100
2	B	98/100 (98%)	97 (99%)	1 (1%)	0	100	100
3	C	7/9 (78%)	7 (100%)	0	0	100	100
4	D	199/210 (95%)	188 (94%)	11 (6%)	0	100	100
5	E	239/244 (98%)	226 (95%)	12 (5%)	1 (0%)	30	27
All	All	818/842 (97%)	784 (96%)	33 (4%)	1 (0%)	48	46

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	E	96	ALA

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	236/238 (99%)	234 (99%)	2 (1%)	73	80
2	B	95/95 (100%)	95 (100%)	0	100	100
3	C	8/8 (100%)	8 (100%)	0	100	100
4	D	174/183 (95%)	168 (97%)	6 (3%)	32	33
5	E	211/213 (99%)	209 (99%)	2 (1%)	70	78
All	All	724/737 (98%)	714 (99%)	10 (1%)	59	66

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	35	ARG
1	A	226	GLN
4	D	138	SER
4	D	150	ASN
4	D	194	PHE
4	D	195	ASN
4	D	201	GLU
4	D	202	ASP
5	E	73	HIS
5	E	205	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	97	ASN
1	A	180	GLN
1	A	224	GLN
1	A	255	GLN
2	B	13	HIS
4	D	128	GLN
5	E	203	ASN
5	E	207	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

11 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	$\# Z > 2$
6	GOL	E	302	-	5,5,5	0.36	0	5,5,5	0.41	0
6	GOL	A	305	-	5,5,5	0.31	0	5,5,5	0.41	0
6	GOL	B	102	-	5,5,5	0.35	0	5,5,5	0.42	0
7	NAG	D	302	4	14,14,15	0.71	0	17,19,21	0.83	0
6	GOL	D	301	-	5,5,5	0.35	0	5,5,5	0.44	0
6	GOL	A	302	-	5,5,5	0.33	0	5,5,5	0.39	0
6	GOL	B	101	-	5,5,5	0.34	0	5,5,5	0.45	0
7	NAG	E	301	5	14,14,15	0.70	0	17,19,21	0.79	0
6	GOL	A	304	-	5,5,5	0.35	0	5,5,5	0.43	0
6	GOL	A	301	-	5,5,5	0.34	0	5,5,5	0.37	0
6	GOL	A	303	-	5,5,5	0.34	0	5,5,5	0.38	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
6	GOL	E	302	-	-	2/4/4/4	-
6	GOL	A	305	-	-	2/4/4/4	-
6	GOL	B	102	-	-	0/4/4/4	-
7	NAG	D	302	4	-	0/6/23/26	0/1/1/1
6	GOL	D	301	-	-	2/4/4/4	-
6	GOL	A	302	-	-	2/4/4/4	-
6	GOL	B	101	-	-	0/4/4/4	-
7	NAG	E	301	5	-	0/6/23/26	0/1/1/1
6	GOL	A	304	-	-	4/4/4/4	-
6	GOL	A	301	-	-	0/4/4/4	-
6	GOL	A	303	-	-	1/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (13) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	A	302	GOL	O1-C1-C2-C3
6	A	304	GOL	O1-C1-C2-C3
6	A	305	GOL	O1-C1-C2-C3
6	D	301	GOL	O1-C1-C2-C3
6	E	302	GOL	O1-C1-C2-C3
6	A	302	GOL	O1-C1-C2-O2
6	A	304	GOL	O1-C1-C2-O2
6	A	305	GOL	O1-C1-C2-O2
6	D	301	GOL	O1-C1-C2-O2
6	E	302	GOL	O1-C1-C2-O2
6	A	304	GOL	C1-C2-C3-O3
6	A	304	GOL	O2-C2-C3-O3
6	A	303	GOL	O1-C1-C2-C3

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	A	303	GOL	1	0

5.7 Other polymers

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	A	276/279 (98%)	0.33	5 (1%) 67 67	29, 57, 113, 135	1 (0%)
2	B	100/100 (100%)	0.34	0 100 100	42, 61, 89, 107	0
3	C	9/9 (100%)	0.04	0 100 100	40, 40, 45, 46	0
4	D	201/210 (95%)	0.86	22 (10%) 10 9	37, 74, 152, 173	0
5	E	241/244 (98%)	0.79	16 (6%) 24 23	38, 77, 125, 150	0
All	All	827/842 (98%)	0.59	43 (5%) 33 31	29, 65, 130, 173	1 (0%)

All (43) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	276	PRO	3.4
4	D	194	PHE	3.4
5	E	183	LEU	3.4
4	D	190	CYS	3.1
5	E	210	CYS	3.0
5	E	204	PRO	2.8
4	D	191	ALA	2.8
4	D	199	ILE	2.8
5	E	208	PHE	2.7
4	D	121	ASN	2.6
1	A	248	VAL	2.6
4	D	180	VAL	2.6
1	A	201	LEU	2.6
4	D	198	ILE	2.5
5	E	142	THR	2.5
4	D	189	ALA	2.5
4	D	193	ALA	2.4
4	D	8	ILE	2.4
1	A	41	ALA	2.4
4	D	167	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
5	E	143	LEU	2.4
4	D	14	VAL	2.4
5	E	161	VAL	2.4
4	D	147	SER	2.4
4	D	188	PHE	2.3
5	E	194	LEU	2.3
5	E	39	LEU	2.2
5	E	166	VAL	2.2
4	D	200	PRO	2.2
4	D	139	VAL	2.2
4	D	42	GLY	2.2
5	E	240	TRP	2.2
5	E	126	ALA	2.1
5	E	228	ALA	2.1
4	D	182	TRP	2.1
1	A	42	SER	2.1
4	D	141	LEU	2.1
5	E	146	LEU	2.1
5	E	125	VAL	2.1
4	D	119	ILE	2.1
4	D	171	SER	2.1
4	D	140	CYS	2.0
5	E	177	LEU	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 oligosaccharides 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.

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
7	NAG	E	301	14/15	0.73	0.12	69,89,95,97	0
6	GOL	A	305	6/6	0.74	0.19	54,62,67,70	0
6	GOL	A	303	6/6	0.76	0.18	41,67,70,71	0
6	GOL	E	302	6/6	0.78	0.12	70,76,82,83	0
6	GOL	D	301	6/6	0.78	0.13	76,83,88,94	0
6	GOL	B	101	6/6	0.79	0.14	52,64,72,72	0
6	GOL	A	301	6/6	0.80	0.14	59,64,65,71	0
6	GOL	A	304	6/6	0.83	0.12	77,84,90,92	0
6	GOL	A	302	6/6	0.84	0.16	56,68,72,72	0
6	GOL	B	102	6/6	0.86	0.12	65,71,75,75	0
7	NAG	D	302	14/15	0.87	0.10	78,85,97,103	0

6.5 Other polymers [i](#)

There are no such residues in this entry.