



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 05:32 AM UTC

PDB ID : 6FJQ / pdb_00006fjq
Title : Adenovirus species 48, fiber knob protein
Authors : Rizkallah, P.J.; Parker, A.L.; Baker, A.T.
Deposited on : 2018-01-22
Resolution : 2.91 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

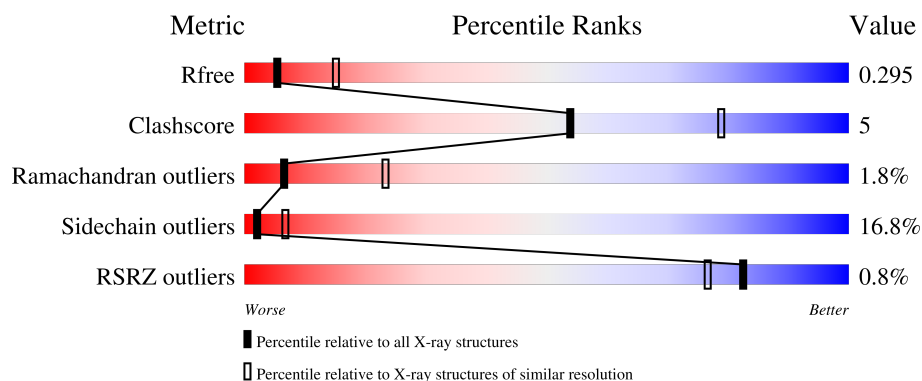
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.91 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	2995 (2.94-2.90)
Clashscore	190562	3213 (2.94-2.90)
Ramachandran outliers	187476	3128 (2.94-2.90)
Sidechain outliers	187428	3130 (2.94-2.90)
RSRZ outliers	180081	2995 (2.94-2.90)

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 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	195	70% 24% . .
1	B	195	74% 21% 5% .

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 3134 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.

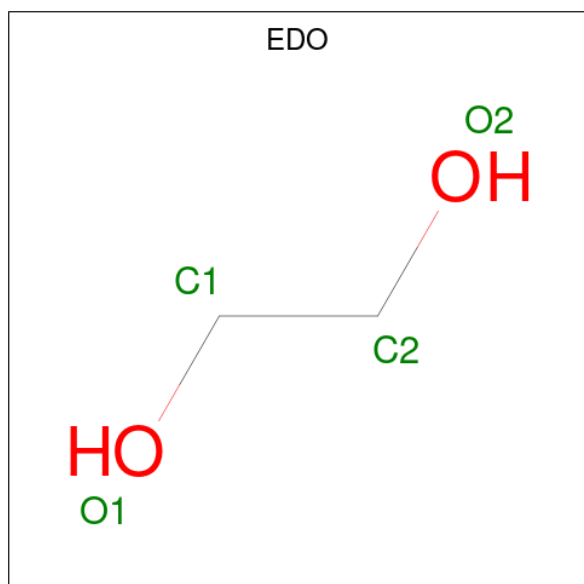
- Molecule 1 is a protein called Fiber.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	195	Total	C	N	O	S	0	0	0
			1538	982	244	306	6			
1	B	195	Total	C	N	O	S	0	0	0
			1538	982	244	306	6			

There are 4 discrepancies between the modelled and reference sequences:

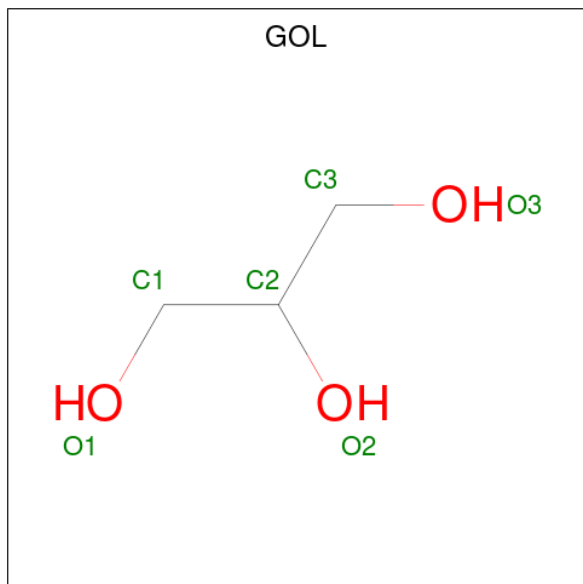
Chain	Residue	Modelled	Actual	Comment	Reference
A	3	LYS	ARG	conflict	UNP A4ZKK6
A	4	LEU	ARG	conflict	UNP A4ZKK6
B	3	LYS	ARG	conflict	UNP A4ZKK6
B	4	LEU	ARG	conflict	UNP A4ZKK6

- Molecule 2 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			4	2	2		
2	B	1	Total	C	O	0	0
			4	2	2		
2	B	1	Total	C	O	0	0
			4	2	2		

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 4 is SULFATE ION (CCD ID: SO4) (formula: O_4S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	O	S	0	0
			5	4	1		
4	A	1	Total	O	S	0	0
			5	4	1		
4	B	1	Total	O	S	0	0
			5	4	1		
4	B	1	Total	O	S	0	0
			5	4	1		
4	B	1	Total	O	S	0	0
			5	4	1		

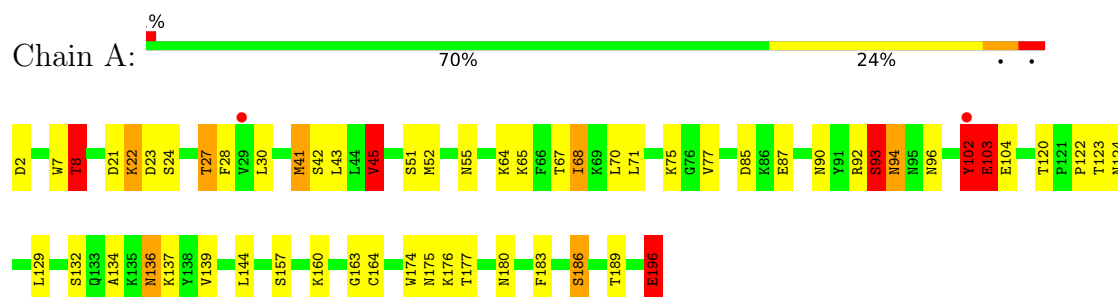
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	7	Total	O	0	0
			7	7		
5	B	2	Total	O	0	0
			2	2		

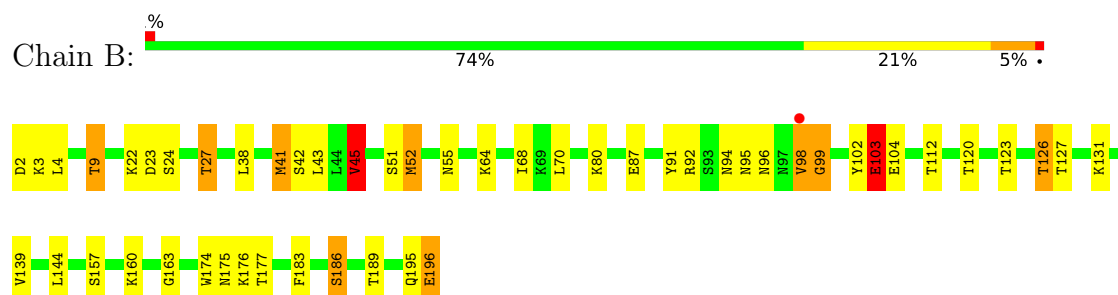
3 Residue-property plots [i](#)

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: Fiber



- Molecule 1: Fiber



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 3 2	Depositor
Cell constants a, b, c, α , β , γ	145.21 Å 145.21 Å 145.21 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	83.83 – 2.91 83.83 – 2.91	Depositor EDS
% Data completeness (in resolution range)	99.4 (83.83-2.91) 99.4 (83.83-2.91)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.99 (at 2.91 Å)	Xtriage
Refinement program	REFMAC 5.8.0189	Depositor
R, R_{free}	0.201 , 0.291 0.207 , 0.295	Depositor DCC
R_{free} test set	576 reflections (4.78%)	wwPDB-VP
Wilson B-factor (Å ²)	83.8	Xtriage
Anisotropy	0.000	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 40.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.52$, $\langle L^2 \rangle = 0.36$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3134	wwPDB-VP
Average B, all atoms (Å ²)	87.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.12% 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, EDO, SO4

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	1.28	12/1576 (0.8%)	1.35	13/2141 (0.6%)
1	B	1.21	5/1576 (0.3%)	1.32	10/2141 (0.5%)
All	All	1.25	17/3152 (0.5%)	1.33	23/4282 (0.5%)

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	A	0	3
1	B	0	3
All	All	0	6

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	51	SER	CA-C	-8.22	1.42	1.52
1	A	51	SER	CA-C	-7.68	1.42	1.52
1	A	94	ASN	N-CA	6.93	1.55	1.46
1	A	52	MET	N-CA	6.89	1.55	1.46
1	B	52	MET	N-CA	6.62	1.54	1.46
1	A	94	ASN	CA-C	6.26	1.61	1.52
1	B	103	GLU	CA-CB	6.03	1.61	1.53
1	B	139	VAL	C-O	-5.95	1.17	1.24
1	A	139	VAL	C-O	-5.92	1.17	1.24
1	A	52	MET	CA-C	5.91	1.60	1.52
1	A	132	SER	C-O	-5.80	1.16	1.23
1	A	102	TYR	CA-CB	5.59	1.62	1.53
1	A	164	CYS	C-O	-5.48	1.17	1.23
1	B	9	THR	CA-CB	5.41	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	93	SER	CA-C	5.15	1.59	1.52
1	A	196	GLU	N-CA	5.08	1.55	1.46
1	A	27	THR	CA-CB	5.01	1.60	1.53

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	51	SER	N-CA-C	-7.89	98.60	110.28
1	A	103	GLU	N-CA-C	7.17	119.76	108.79
1	B	103	GLU	N-CA-C	6.99	117.47	108.24
1	A	124	ASN	CA-C-N	-6.95	112.53	120.04
1	A	124	ASN	C-N-CA	-6.95	112.53	120.04
1	A	23	ASP	CB-CA-C	-6.91	98.94	110.68
1	B	51	SER	N-CA-C	-6.88	100.09	110.28
1	A	41	MET	N-CA-C	6.53	120.16	109.06
1	A	52	MET	N-CA-C	6.51	124.68	110.80
1	A	8	THR	N-CA-CB	-6.46	100.72	110.35
1	B	186	SER	N-CA-C	-6.40	102.04	110.43
1	B	23	ASP	CB-CA-C	-6.06	98.36	110.42
1	B	52	MET	N-CA-C	6.04	123.67	110.80
1	B	41	MET	N-CA-C	5.84	118.73	108.75
1	B	45	VAL	CB-CA-C	5.78	119.44	110.83
1	A	45	VAL	CB-CA-C	5.73	119.37	110.83
1	B	126	THR	CB-CA-C	-5.68	100.13	110.63
1	A	186	SER	N-CA-C	-5.51	103.22	110.43
1	B	103	GLU	CA-CB-CG	5.38	124.86	114.10
1	B	27	THR	CB-CA-C	5.19	118.71	109.72
1	A	180	ASN	N-CA-C	5.10	117.39	111.02
1	A	23	ASP	N-CA-C	5.10	117.50	111.33
1	A	22	LYS	N-CA-C	5.08	118.45	111.54

There are no chirality outliers.

All (6) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	102	TYR	Peptide
1	A	103	GLU	Peptide
1	A	163	GLY	Peptide
1	B	103	GLU	Peptide
1	B	163	GLY	Peptide
1	B	99	GLY	Peptide

5.2 Too-close contacts ⓘ

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	1538	0	1502	21	0
1	B	1538	0	1502	9	0
2	A	4	0	6	0	0
2	B	8	0	12	0	0
3	A	6	0	8	1	0
3	B	6	0	8	0	0
4	A	10	0	0	0	0
4	B	15	0	0	0	0
5	A	7	0	0	0	0
5	B	2	0	0	0	0
All	All	3134	0	3038	30	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 (30) 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:A:8:THR:HG21	1:A:27:THR:HA	1.63	0.81
1:A:77:VAL:HG22	1:A:103:GLU:HB3	1.73	0.71
1:A:90:ASN:ND2	1:A:96:ASN:HD21	1.90	0.70
1:B:92:ARG:O	1:B:98:VAL:HG11	1.94	0.68
1:A:7:TRP:CZ2	1:A:92:ARG:HD2	2.29	0.67
1:B:45:VAL:HG13	1:B:183:PHE:HB3	1.77	0.66
1:A:45:VAL:HG13	1:A:183:PHE:HB3	1.78	0.65
1:A:196:GLU:OE1	1:A:196:GLU:N	2.33	0.61
1:B:55:ASN:HD21	1:B:174:TRP:HE1	1.51	0.58
1:A:7:TRP:CH2	1:A:92:ARG:HD2	2.38	0.58
1:A:55:ASN:HD21	1:A:174:TRP:HE1	1.54	0.55
1:A:8:THR:CG2	1:A:8:THR:O	2.57	0.52
1:A:96:ASN:O	1:A:96:ASN:ND2	2.46	0.48
1:B:2:ASP:HA	1:B:98:VAL:HG12	1.95	0.48
1:B:195:GLN:O	1:B:196:GLU:OXT	2.32	0.47
1:A:136:ASN:HD22	1:A:136:ASN:H	1.62	0.46
1:A:134:ALA:HA	1:A:137:LYS:HE2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2:ASP:HB2	1:B:91:TYR:CD1	2.52	0.45
1:A:64:LYS:HA	1:A:174:TRP:CZ2	2.54	0.43
1:A:196:GLU:OE1	1:A:196:GLU:CA	2.65	0.43
1:B:64:LYS:HA	1:B:174:TRP:CZ2	2.53	0.43
1:A:92:ARG:O	1:A:93:SER:C	2.62	0.43
1:A:8:THR:O	1:A:8:THR:HG23	2.19	0.42
1:A:67:THR:HG22	1:A:68:ILE:N	2.35	0.42
1:B:102:TYR:O	1:B:103:GLU:HB3	2.20	0.41
1:A:175:ASN:O	1:A:176:LYS:C	2.64	0.41
1:A:85:ASP:HB2	3:A:302:GOL:H31	2.02	0.41
1:A:28:PHE:CZ	1:A:30:LEU:HD21	2.56	0.41
1:A:2:ASP:O	1:A:94:ASN:ND2	2.55	0.40
1:B:175:ASN:O	1:B:176:LYS:C	2.65	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	193/195 (99%)	176 (91%)	15 (8%)	2 (1%)	12	37
1	B	193/195 (99%)	170 (88%)	18 (9%)	5 (3%)	4	15
All	All	386/390 (99%)	346 (90%)	33 (8%)	7 (2%)	6	23

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	93	SER
1	B	95	ASN
1	B	98	VAL
1	A	122	PRO
1	B	4	LEU

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Mol	Chain	Res	Type
1	B	52	MET
1	B	99	GLY

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	176/176 (100%)	148 (84%)	28 (16%)	2	8
1	B	176/176 (100%)	145 (82%)	31 (18%)	2	6
All	All	352/352 (100%)	293 (83%)	59 (17%)	2	7

All (59) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	8	THR
1	A	21	ASP
1	A	22	LYS
1	A	24	SER
1	A	41	MET
1	A	42	SER
1	A	43	LEU
1	A	45	VAL
1	A	65	LYS
1	A	68	ILE
1	A	70	LEU
1	A	71	LEU
1	A	75	LYS
1	A	87	GLU
1	A	102	TYR
1	A	103	GLU
1	A	104	GLU
1	A	120	THR
1	A	123	THR
1	A	129	LEU
1	A	136	ASN

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Mol	Chain	Res	Type
1	A	144	LEU
1	A	157	SER
1	A	160	LYS
1	A	177	THR
1	A	186	SER
1	A	189	THR
1	A	196	GLU
1	B	3	LYS
1	B	9	THR
1	B	22	LYS
1	B	24	SER
1	B	27	THR
1	B	38	LEU
1	B	41	MET
1	B	42	SER
1	B	43	LEU
1	B	45	VAL
1	B	68	ILE
1	B	70	LEU
1	B	80	LYS
1	B	87	GLU
1	B	94	ASN
1	B	96	ASN
1	B	103	GLU
1	B	104	GLU
1	B	112	THR
1	B	120	THR
1	B	123	THR
1	B	126	THR
1	B	127	THR
1	B	131	LYS
1	B	144	LEU
1	B	157	SER
1	B	160	LYS
1	B	177	THR
1	B	186	SER
1	B	189	THR
1	B	196	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	36	GLN
1	A	55	ASN
1	A	90	ASN
1	A	94	ASN
1	A	96	ASN
1	A	97	ASN
1	A	136	ASN
1	A	141	ASN
1	A	180	ASN
1	B	36	GLN
1	B	55	ASN
1	B	96	ASN
1	B	141	ASN
1	B	180	ASN
1	B	182	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

10 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
2	EDO	B	201	-	3,3,3	0.52	0	2,2,2	0.24	0
2	EDO	B	202	-	3,3,3	0.37	0	2,2,2	0.30	0
3	GOL	A	302	-	5,5,5	0.51	0	5,5,5	0.68	0
4	SO4	B	204	-	4,4,4	0.70	0	6,6,6	0.45	0
4	SO4	B	205	-	4,4,4	0.53	0	6,6,6	0.22	0
4	SO4	B	206	-	4,4,4	0.46	0	6,6,6	0.23	0
4	SO4	A	304	-	4,4,4	0.49	0	6,6,6	0.54	0
3	GOL	B	203	-	5,5,5	0.62	0	5,5,5	0.63	0
2	EDO	A	301	-	3,3,3	0.49	0	2,2,2	0.31	0
4	SO4	A	303	-	4,4,4	0.46	0	6,6,6	0.09	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
2	EDO	B	201	-	-	1/1/1/1	-
2	EDO	B	202	-	-	1/1/1/1	-
3	GOL	A	302	-	-	3/4/4/4	-
3	GOL	B	203	-	-	0/4/4/4	-
2	EDO	A	301	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	302	GOL	C1-C2-C3-O3
3	A	302	GOL	O2-C2-C3-O3
2	B	201	EDO	O1-C1-C2-O2
3	A	302	GOL	O1-C1-C2-O2
2	B	202	EDO	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	302	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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	195/195 (100%)	-0.11	2 (1%) 79 72	59, 73, 140, 193	0
1	B	195/195 (100%)	-0.14	1 (0%) 87 83	62, 87, 158, 217	0
All	All	390/390 (100%)	-0.12	3 (0%) 82 76	59, 80, 148, 217	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	29	VAL	3.0
1	A	102	TYR	2.3
1	B	98	VAL	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 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.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	EDO	B	201	4/4	0.81	0.21	92,100,102,108	0
3	GOL	A	302	6/6	0.82	0.11	94,105,109,112	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	GOL	B	203	6/6	0.82	0.21	91,99,114,120	0
4	SO4	B	205	5/5	0.85	0.12	120,131,142,159	0
4	SO4	B	204	5/5	0.87	0.22	94,106,126,130	0
4	SO4	B	206	5/5	0.87	0.20	99,99,101,104	5
4	SO4	A	304	5/5	0.91	0.17	84,112,124,134	0
4	SO4	A	303	5/5	0.93	0.20	89,93,94,96	5
2	EDO	A	301	4/4	0.94	0.11	77,79,79,80	0
2	EDO	B	202	4/4	0.97	0.08	49,49,49,50	4

6.5 Other polymers [i](#)

There are no such residues in this entry.