



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 18, 2026 – 03:35 PM UTC

PDB ID : 3UZJ / pdb_00003uzj
Title : Designed protein KE59 R13 3/11H with benzotriazole
Authors : Khersonsky, O.; Kiss, G.; Roethlisberger, D.; Dym, O.; Albeck, S.; Houk, K.N.; Baker, D.; Tawfik, D.S.; Israel Structural Proteomics Center (ISPC)
Deposited on : 2011-12-07
Resolution : 1.69 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

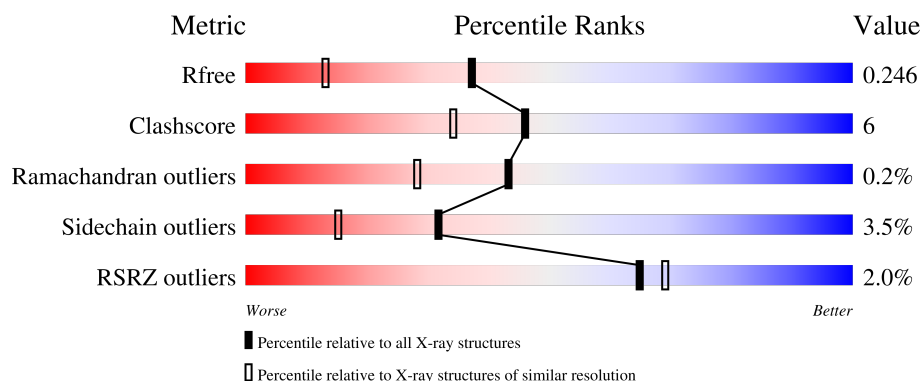
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

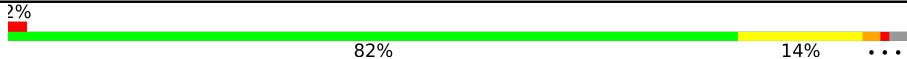
The reported resolution of this entry is 1.69 Å.

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	5551 (1.70-1.70)
Clashscore	190562	5924 (1.70-1.70)
Ramachandran outliers	187476	5846 (1.70-1.70)
Sidechain outliers	187428	5846 (1.70-1.70)
RSRZ outliers	180081	5554 (1.70-1.70)

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	252	
1	B	252	

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
3	PO4	A	302	-	X	-	-
3	PO4	A	303	-	-	X	-
3	PO4	B	300	-	-	X	-

2 Entry composition [i](#)

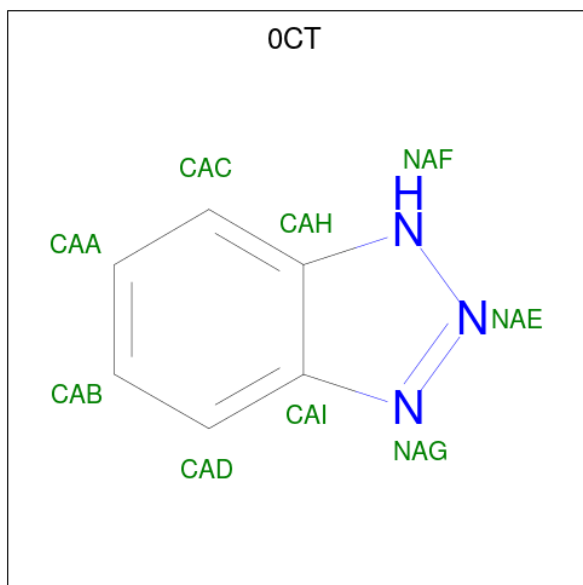
There are 4 unique types of molecules in this entry. The entry contains 4077 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Kemp eliminase KE59 R13 3/11H.

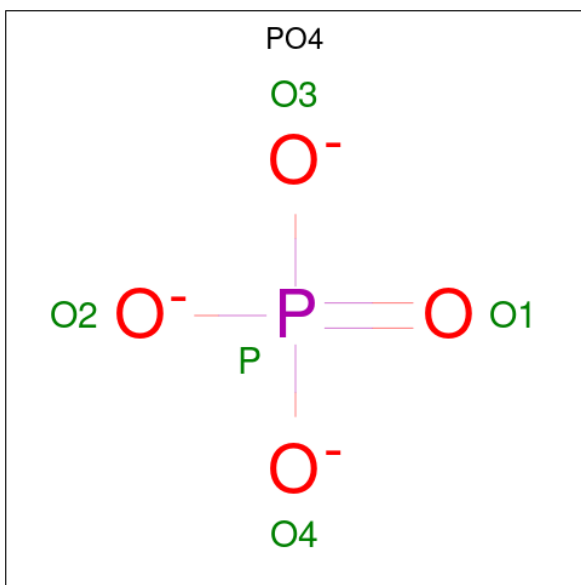
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	247	Total	C	N	O	S	0	1	0
			1935	1238	327	364	6			
1	B	242	Total	C	N	O	S	0	1	0
			1893	1215	317	355	6			

- Molecule 2 is 1H-benzotriazole (CCD ID: 0CT) (formula: C₆H₅N₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	N	0	0
			9	6	3		
2	B	1	Total	C	N	0	0
			9	6	3		

- Molecule 3 is PHOSPHATE ION (CCD ID: PO4) (formula: O₄P).



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

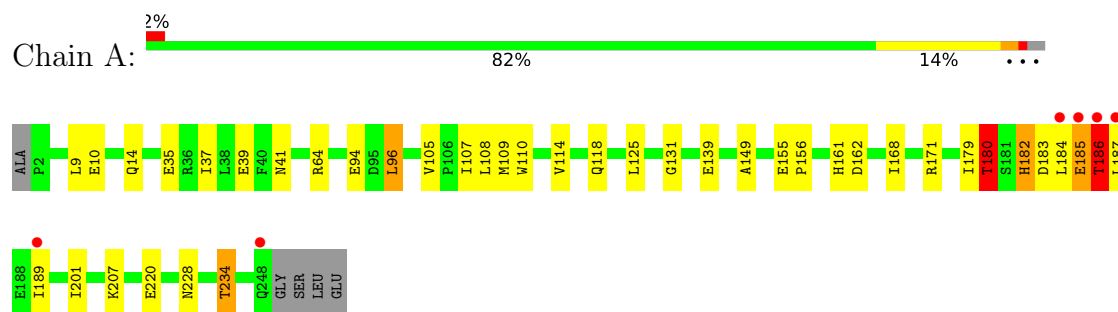
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	113	Total	O	0	0
			113	113		
4	B	103	Total	O	0	0
			103	103		

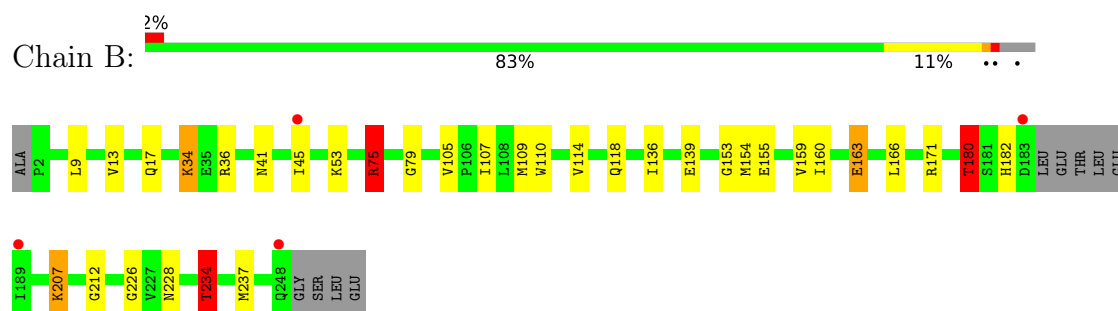
3 Residue-property plots

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: Kemp eliminase KE59 R13 3/11H



- Molecule 1: Kemp eliminase KE59 R13 3/11H



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	95.92Å 123.76Å 45.64Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.82 – 1.69 42.82 – 1.69	Depositor EDS
% Data completeness (in resolution range)	98.2 (42.82-1.69) 98.2 (42.82-1.69)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	0.06	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.06 (at 1.69Å)	Xtriage
Refinement program	REFMAC 5.5.0102	Depositor
R, R_{free}	0.196 , 0.236 0.211 , 0.246	Depositor DCC
R_{free} test set	3063 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å ²)	16.1	Xtriage
Anisotropy	0.060	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 37.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4077	wwPDB-VP
Average B, all atoms (Å ²)	15.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.29% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: OCT, PO4

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	1.51	9/1967 (0.5%)	1.28	8/2658 (0.3%)
1	B	1.57	16/1923 (0.8%)	1.29	6/2598 (0.2%)
All	All	1.54	25/3890 (0.6%)	1.28	14/5256 (0.3%)

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	B	1	0

All (25) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	155	GLU	CD-OE2	-13.73	0.99	1.25
1	A	107	ILE	C-O	-9.83	1.13	1.24
1	B	107	ILE	C-O	-8.28	1.15	1.24
1	A	109	MET	C-O	-7.80	1.14	1.24
1	A	155	GLU	CD-OE2	-7.73	1.10	1.25
1	B	109	MET	C-O	-7.54	1.14	1.24
1	B	36	ARG	C-O	-7.43	1.15	1.24
1	B	105	VAL	C-O	-7.41	1.15	1.24
1	B	34	LYS	C-O	-7.13	1.15	1.24
1	A	182	HIS	CG-ND1	-6.79	1.30	1.38
1	A	185	GLU	C-O	-6.18	1.16	1.24
1	A	105	VAL	C-O	-6.16	1.16	1.24
1	B	163	GLU	C-O	-6.08	1.16	1.24
1	B	155	GLU	CD-OE1	-5.87	1.14	1.25
1	A	131	GLY	N-CA	5.73	1.52	1.45
1	B	79	GLY	N-CA	5.72	1.51	1.45

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	180	THR	C-O	-5.71	1.17	1.24
1	B	155	GLU	C-O	-5.53	1.18	1.24
1	B	75	ARG	C-O	-5.45	1.17	1.24
1	B	154	MET	C-O	-5.33	1.17	1.23
1	B	212	GLY	N-CA	5.21	1.53	1.45
1	B	159	VAL	CA-C	5.18	1.59	1.52
1	B	153	GLY	C-O	-5.08	1.17	1.24
1	A	108	LEU	C-O	-5.05	1.18	1.24
1	A	189	ILE	C-O	-5.03	1.18	1.24

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	180	THR	CB-CA-C	-8.16	94.69	109.38
1	A	186	THR	N-CA-CB	7.80	123.67	110.49
1	A	180	THR	CB-CA-C	-7.20	96.42	109.38
1	A	180	THR	OG1-CB-CG2	7.14	123.58	109.30
1	B	136	ILE	N-CA-C	-6.64	106.09	111.81
1	B	180	THR	OG1-CB-CG2	6.54	122.39	109.30
1	A	185	GLU	O-C-N	-6.36	115.73	123.30
1	A	180	THR	CA-CB-OG1	5.99	118.58	109.60
1	B	180	THR	CA-CB-OG1	5.56	117.94	109.60
1	A	37	ILE	O-C-N	5.50	127.30	121.91
1	A	162	ASP	N-CA-C	5.43	116.51	108.86
1	A	168	ILE	N-CA-C	5.34	115.55	110.42
1	B	180	THR	CA-CB-CG2	5.30	119.50	110.50
1	B	234	THR	OG1-CB-CG2	5.18	119.67	109.30

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	B	180	THR	CB

There are no planarity outliers.

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	1935	0	1950	26	0
1	B	1893	0	1909	19	0
2	A	9	0	5	0	0
2	B	9	0	5	0	0
3	A	10	0	0	4	0
3	B	5	0	0	2	0
4	A	113	0	0	3	0
4	B	103	0	0	5	0
All	All	4077	0	3869	45	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 6.

All (45) 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:B:75:ARG:HB3	4:B:360:HOH:O	1.39	1.19
1:B:180:THR:HG22	1:B:182:HIS:H	1.37	0.88
1:B:234:THR:HG23	3:B:300:PO4:O4	1.77	0.85
1:A:139:GLU:OE2	1:A:171:ARG:HD2	1.80	0.82
1:A:180:THR:HG21	4:A:357:HOH:O	1.78	0.82
1:A:180:THR:HG22	1:A:182:HIS:H	1.46	0.79
1:A:64:ARG:HD3	3:A:302:PO4:O4	1.87	0.74
1:A:114:VAL:H	1:A:118:GLN:HE22	1.37	0.73
1:A:41:ASN:ND2	1:A:228:ASN:HD22	1.87	0.71
1:A:234:THR:HG23	3:A:303:PO4:O3	1.91	0.70
1:A:161[A]:HIS:HD2	4:A:256:HOH:O	1.77	0.67
1:B:114:VAL:H	1:B:118:GLN:NE2	1.93	0.67
1:A:114:VAL:H	1:A:118:GLN:NE2	1.93	0.65
1:B:234:THR:HG21	4:B:327:HOH:O	1.95	0.65
1:A:94:GLU:HG2	4:A:338:HOH:O	1.97	0.65
1:B:182:HIS:HE1	3:B:300:PO4:O1	1.80	0.64
1:A:185:GLU:O	1:A:186:THR:CB	2.45	0.62
1:B:114:VAL:H	1:B:118:GLN:HE22	1.45	0.62
1:A:41:ASN:HD21	1:A:228:ASN:HD22	1.46	0.61
1:B:163:GLU:HG3	4:B:347:HOH:O	2.01	0.60
1:B:13:VAL:O	1:B:17:GLN:HG3	2.02	0.59
1:B:41:ASN:ND2	1:B:228:ASN:HD22	2.02	0.57
1:A:9:LEU:HD11	1:A:184:LEU:HD13	1.86	0.57
1:A:10:GLU:O	1:A:14:GLN:HG2	2.06	0.56
1:A:185:GLU:O	1:A:186:THR:HG23	2.06	0.54
1:B:160:ILE:HD13	1:B:166:LEU:HD13	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:HIS:HE1	3:A:303:PO4:O4	1.91	0.53
1:B:75:ARG:CB	4:B:360:HOH:O	2.21	0.53
1:B:182:HIS:HD2	4:B:348:HOH:O	1.92	0.53
1:A:183:ASP:OD2	1:A:185:GLU:O	2.27	0.51
1:A:96:LEU:HD13	1:A:125:LEU:HB2	1.98	0.46
1:A:96:LEU:HD13	1:A:125:LEU:CB	2.46	0.46
1:A:182:HIS:CE1	3:A:303:PO4:O4	2.69	0.45
1:B:139:GLU:OE2	1:B:171:ARG:HD2	2.17	0.45
1:A:185:GLU:O	1:A:186:THR:CG2	2.65	0.45
1:A:179:ILE:HD11	1:A:201:ILE:CD1	2.47	0.44
1:A:35:GLU:O	1:A:39:GLU:HG3	2.17	0.44
1:A:183:ASP:O	1:A:187:LEU:HA	2.18	0.44
1:B:160:ILE:CD1	1:B:166:LEU:HD13	2.48	0.42
1:B:53:LYS:O	1:B:237:MET:HE2	2.19	0.42
1:B:41:ASN:HD21	1:B:228:ASN:HB3	1.84	0.42
1:A:149:ALA:CB	1:A:156:PRO:HG3	2.50	0.41
1:A:179:ILE:HD11	1:A:201:ILE:HD12	2.02	0.41
1:B:207:LYS:HE2	1:B:226:GLY:O	2.20	0.41
1:B:9:LEU:HD23	1:B:9:LEU:HA	1.88	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	246/252 (98%)	242 (98%)	3 (1%)	1 (0%)	30	16
1	B	239/252 (95%)	234 (98%)	5 (2%)	0	100	100
All	All	485/504 (96%)	476 (98%)	8 (2%)	1 (0%)	43	28

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	186	THR

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	205/224 (92%)	198 (97%)	7 (3%)	32	16
1	B	199/224 (89%)	192 (96%)	7 (4%)	32	15
All	All	404/448 (90%)	390 (96%)	14 (4%)	32	15

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	96	LEU
1	A	110	TRP
1	A	180	THR
1	A	186	THR
1	A	207	LYS
1	A	220	GLU
1	A	234	THR
1	B	34	LYS
1	B	45	ILE
1	B	75	ARG
1	B	110	TRP
1	B	180	THR
1	B	207	LYS
1	B	234	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	41	ASN
1	A	118	GLN
1	A	124	ASN
1	A	193	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	194	GLN
1	A	239	ASN
1	B	14	GLN
1	B	41	ASN
1	B	118	GLN
1	B	182	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](#)

5 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	OCT	A	301	-	10,10,10	1.85	3 (30%)	13,13,13	2.41	3 (23%)
3	PO4	A	302	-	4,4,4	1.91	2 (50%)	6,6,6	1.59	2 (33%)
2	OCT	B	301	-	10,10,10	1.61	1 (10%)	13,13,13	1.26	2 (15%)
3	PO4	A	303	-	4,4,4	1.22	1 (25%)	6,6,6	1.15	0
3	PO4	B	300	-	4,4,4	0.74	0	6,6,6	1.37	1 (16%)

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	0CT	B	301	-	-	-	0/2/2/2
2	0CT	A	301	-	-	-	0/2/2/2

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	301	0CT	CAB-CAD	3.49	1.44	1.38
2	A	301	0CT	CAI-NAG	-3.02	1.33	1.38
2	B	301	0CT	NAG-NAE	-2.64	1.24	1.31
3	A	302	PO4	P-O4	-2.52	1.47	1.54
2	A	301	0CT	NAF-NAE	-2.22	1.26	1.34
3	A	303	PO4	P-O2	2.13	1.60	1.54
3	A	302	PO4	P-O1	2.09	1.55	1.50

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	301	0CT	CAD-CAI-NAG	5.09	137.14	130.50
2	A	301	0CT	CAB-CAA-CAC	-4.91	114.19	120.24
2	A	301	0CT	CAA-CAC-CAH	3.56	125.92	118.69
3	A	302	PO4	O2-P-O1	2.42	119.52	110.95
2	B	301	0CT	CAD-CAI-NAG	2.35	133.57	130.50
3	B	300	PO4	O3-P-O1	-2.23	103.08	110.95
2	B	301	0CT	CAB-CAA-CAC	-2.13	117.62	120.24
3	A	302	PO4	O4-P-O1	-2.05	103.72	110.95

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

3 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	302	PO4	1	0
3	A	303	PO4	3	0
3	B	300	PO4	2	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 [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	247/252 (98%)	-0.06	6 (2%) 59 64	9, 15, 27, 37	1 (0%)
1	B	242/252 (96%)	-0.18	4 (1%) 69 73	8, 14, 24, 38	1 (0%)
All	All	489/504 (97%)	-0.12	10 (2%) 65 69	8, 14, 26, 38	2 (0%)

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	183	ASP	4.1
1	B	248	GLN	3.7
1	A	184	LEU	3.6
1	A	187	LEU	3.5
1	B	189	ILE	3.3
1	A	185	GLU	3.3
1	A	186	THR	3.2
1	A	189	ILE	2.4
1	B	45	ILE	2.2
1	A	248	GLN	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

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	PO4	A	302	5/5	0.89	0.18	16,37,37,38	1
2	0CT	A	301	9/9	0.91	0.09	8,10,12,12	9
2	0CT	B	301	9/9	0.93	0.08	8,10,11,12	9
3	PO4	A	303	5/5	0.96	0.07	18,21,23,24	0
3	PO4	B	300	5/5	0.96	0.08	17,18,21,21	0

6.5 Other polymers

There are no such residues in this entry.