wwPDB X-ray Structure Validation Summary Report (i)

Sep 23, 2023 – 11:28 PM EDT

PDB ID	:	5SUR
Title	:	X-ray crystallographic structure of a covalent trimer derived from A-beta 17_36. Synchrotron data set. (ORN)CVF(MEA)CED(ORN)AIIGL(ORN)V.
Authors	:	Kreutzer, A.G.; Yoo, S.; Nowick, J.S.
Deposited on	:	2016-08-03
Resolution	:	1.80 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 (i) 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 (i)) were used in the production of this report:

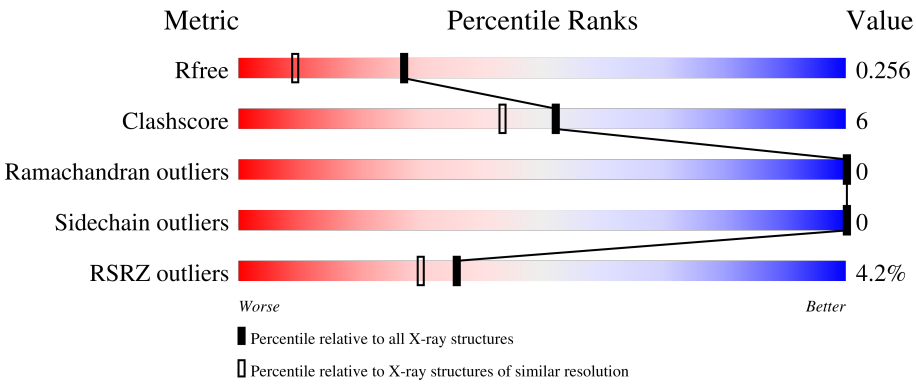
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

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 1.80 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	5950 (1.80-1.80)
Clashscore	141614	6793 (1.80-1.80)
Ramachandran outliers	138981	6697 (1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)
RSRZ outliers	127900	5850 (1.80-1.80)

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 <=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	16	6%, 81%, 12%, 6%
1	B	16	88%, 12%
1	C	16	81%, 19%
1	D	16	6%, 88%, 6%, 6%

2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 1138 atoms, of which 575 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.

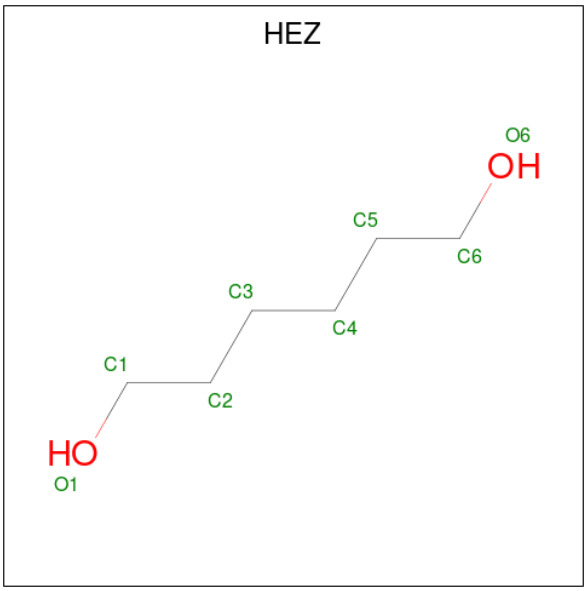
- Molecule 1 is a protein called 16mer A-beta peptide: ORN-CYS-VAL-PHE-MEA-CYS-GLU-ASP-ORN-ALA-ILE-ILE-GLY-LEU-ORN-VAL.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
1	A	16	253	82	130	19	20	2	0	0	0
1	B	16	253	82	130	19	20	2	0	0	0
1	C	16	252	82	129	19	20	2	0	0	0
1	D	16	253	82	130	19	20	2	0	0	0

- Molecule 2 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Na		
2	A	1	1	1	0	0
2	D	1	1	1	0	0

- Molecule 3 is HEXANE-1,6-DIOL (three-letter code: HEZ) (formula: $C_6H_{14}O_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
3	A	1	22	6	14	2	0	0
			Total	C	H	O		
3	A	1	22	6	14	2	0	0
			Total	C	H	O		
3	C	1	22	6	14	2	0	0
			Total	C	H	O		
3	C	1	22	6	14	2	0	0

- Molecule 4 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Cl		
4	C	1	1	1	0	0
			Total	Cl		
4	D	1	1	1	0	0

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
5	A	8	8	8	0	0
			Total	O		
5	B	14	14	14	0	0
			Total	O		
5	C	7	7	7	0	0

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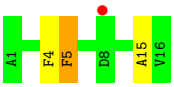
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
5	D	6	6	6	0	0

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.

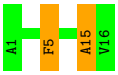
• Molecule 1: 16mer A-beta peptide: ORN-CYS-VAL-PHE-MEA-CYS-GLU-ASP-ORN-ALA-ILE-ILE-GLY-LEU-ORN-VAL

Chain A:



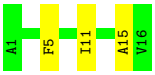
• Molecule 1: 16mer A-beta peptide: ORN-CYS-VAL-PHE-MEA-CYS-GLU-ASP-ORN-ALA-ILE-ILE-GLY-LEU-ORN-VAL

Chain B:



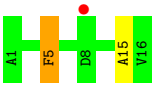
• Molecule 1: 16mer A-beta peptide: ORN-CYS-VAL-PHE-MEA-CYS-GLU-ASP-ORN-ALA-ILE-ILE-GLY-LEU-ORN-VAL

Chain C:



• Molecule 1: 16mer A-beta peptide: ORN-CYS-VAL-PHE-MEA-CYS-GLU-ASP-ORN-ALA-ILE-ILE-GLY-LEU-ORN-VAL

Chain D:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 63 2 2	Depositor
Cell constants a, b, c, α, β, γ	57.40Å 57.40Å 94.14Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	27.45 – 1.80 34.18 – 1.80	Depositor EDS
% Data completeness (in resolution range)	97.7 (27.45-1.80) 90.2 (34.18-1.80)	Depositor EDS
R_{merge}	0.01	Depositor
R_{sym}	0.01	Depositor
$< I/\sigma(I) >$ [1]	0.58 (at 1.81Å)	Xtriage
Refinement program	PHENIX 1.10.1_2155: 000	Depositor
R, R_{free}	0.211 , 0.249 0.216 , 0.256	Depositor DCC
R_{free} test set	887 reflections (9.99%)	wwPDB-VP
Wilson B-factor (Å^2)	36.6	Xtriage
Anisotropy	0.065	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.38 , 62.3	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	1138	wwPDB-VP
Average B, all atoms (Å^2)	66.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.44% of the height of the origin peak. No significant pseudotranslation is detected.*

[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< |L| >$, $< L^2 >$ 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: CL, MEA, NA, ORN, HEZ

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	0.31	0/84	0.53	0/108
1	B	0.33	0/84	0.51	0/108
1	C	0.34	0/84	0.52	0/108
1	D	0.35	0/84	0.48	0/108
All	All	0.33	0/336	0.51	0/432

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	123	130	125	1	0
1	B	123	130	125	4	0
1	C	123	129	126	2	0
1	D	123	130	126	1	0
2	A	1	0	0	0	0
2	D	1	0	0	0	0
3	A	16	28	28	0	0
3	C	16	28	28	0	0
4	C	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	D	1	0	0	0	0
5	A	8	0	0	0	1
5	B	14	0	0	0	1
5	C	7	0	0	0	0
5	D	6	0	0	0	0
All	All	563	575	558	6	1

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.

The worst 5 of 6 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:5:MEA:HC3	1:B:5:MEA:O	2.07	0.54
1:D:5:MEA:O	1:D:5:MEA:HC3	2.08	0.51
1:B:15:ORN:HB3	1:C:11:ILE:HD11	2.00	0.43
1:B:15:ORN:CB	1:C:11:ILE:HD11	2.50	0.41
1:A:4:PHE:HA	1:A:5:MEA:HC1	1.90	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:206:HOH:O	5:B:114:HOH:O[2_455]	2.16	0.04

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	10/16 (62%)	10 (100%)	0	0	100 100
1	B	10/16 (62%)	10 (100%)	0	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	10/16 (62%)	10 (100%)	0	0	100	100
1	D	10/16 (62%)	10 (100%)	0	0	100	100
All	All	40/64 (62%)	40 (100%)	0	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	10/10 (100%)	10 (100%)	0	100	100
1	B	10/10 (100%)	10 (100%)	0	100	100
1	C	10/10 (100%)	10 (100%)	0	100	100
1	D	10/10 (100%)	10 (100%)	0	100	100
All	All	40/40 (100%)	40 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

16 non-standard protein/DNA/RNA residues 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	$\#\|Z\| > 2$
1	ORN	A	1	1	6,7,8	0.82	0	2,7,9	0.51	0
1	ORN	B	1	1	6,7,8	0.66	0	2,7,9	0.20	0
1	ORN	A	9	1	6,7,8	0.62	0	2,7,9	0.31	0
1	ORN	B	9	1	6,7,8	0.56	0	2,7,9	0.22	0
1	ORN	A	15	1	6,7,8	1.95	1 (16%)	2,7,9	0.50	0
1	ORN	D	1	1	6,7,8	0.61	0	2,7,9	0.25	0
1	ORN	D	9	1	6,7,8	0.60	0	2,7,9	0.17	0
1	MEA	A	5	1	11,12,13	1.23	1 (9%)	13,14,16	1.30	1 (7%)
1	MEA	B	5	1	11,12,13	1.27	1 (9%)	13,14,16	1.25	1 (7%)
1	ORN	B	15	1	6,7,8	2.10	1 (16%)	2,7,9	1.14	0
1	ORN	C	9	1	6,7,8	0.65	0	2,7,9	0.14	0
1	ORN	C	1	1	6,7,8	0.53	0	2,7,9	0.35	0
1	MEA	D	5	1	11,12,13	1.34	1 (9%)	13,14,16	1.47	1 (7%)
1	ORN	D	15	1	6,7,8	2.16	1 (16%)	2,7,9	0.35	0
1	ORN	C	15	1	6,7,8	2.17	1 (16%)	2,7,9	0.69	0
1	MEA	C	5	1	11,12,13	1.32	1 (9%)	13,14,16	1.23	1 (7%)

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
1	ORN	A	1	1	-	0/5/6/8	-
1	ORN	B	1	1	-	0/5/6/8	-
1	ORN	A	9	1	-	2/5/6/8	-
1	ORN	B	9	1	-	0/5/6/8	-
1	ORN	A	15	1	-	1/5/6/8	-
1	ORN	D	1	1	-	0/5/6/8	-
1	ORN	D	9	1	-	1/5/6/8	-
1	MEA	A	5	1	-	1/5/8/10	0/1/1/1
1	MEA	B	5	1	-	0/5/8/10	0/1/1/1
1	ORN	B	15	1	-	2/5/6/8	-
1	ORN	C	9	1	-	2/5/6/8	-
1	ORN	C	1	1	-	0/5/6/8	-
1	MEA	D	5	1	-	0/5/8/10	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	ORN	D	15	1	-	2/5/6/8	-
1	ORN	C	15	1	-	1/5/6/8	-
1	MEA	C	5	1	-	1/5/8/10	0/1/1/1

The worst 5 of 8 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	15	ORN	CA-N	-5.22	1.32	1.48
1	D	15	ORN	CA-N	-5.21	1.32	1.48
1	B	15	ORN	CA-N	-4.95	1.33	1.48
1	A	15	ORN	CA-N	-4.69	1.34	1.48
1	C	5	MEA	CB-CA	-3.15	1.46	1.54

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	5	MEA	CG-CB-CA	-4.52	107.16	113.63
1	B	5	MEA	CG-CB-CA	-3.57	108.52	113.63
1	A	5	MEA	CG-CB-CA	-3.55	108.55	113.63
1	C	5	MEA	CG-CB-CA	-3.21	109.04	113.63

There are no chirality outliers.

5 of 13 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	5	MEA	O-C-CA-CB
1	C	5	MEA	O-C-CA-CB
1	A	15	ORN	C-CA-CB-CG
1	B	15	ORN	N-CA-CB-CG
1	C	15	ORN	C-CA-CB-CG

There are no ring outliers.

4 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	5	MEA	1	0
1	B	5	MEA	2	0
1	B	15	ORN	2	0
1	D	5	MEA	1	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 8 ligands modelled in this entry, 4 are monoatomic - leaving 4 for Mogul analysis.

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	HEZ	A	102	-	7,7,7	0.36	0	6,6,6	0.63	0
3	HEZ	C	102	-	7,7,7	0.34	0	6,6,6	0.71	0
3	HEZ	C	103	-	7,7,7	0.33	0	6,6,6	0.73	0
3	HEZ	A	103	-	7,7,7	0.31	0	6,6,6	0.72	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	HEZ	A	102	-	-	2/5/5/5	-
3	HEZ	C	102	-	-	4/5/5/5	-
3	HEZ	C	103	-	-	1/5/5/5	-
3	HEZ	A	103	-	-	1/5/5/5	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 8 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	C	102	HEZ	C2-C3-C4-C5
3	C	103	HEZ	C1-C2-C3-C4
3	A	102	HEZ	O1-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
3	A	102	HEZ	C1-C2-C3-C4
3	A	103	HEZ	C1-C2-C3-C4

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 (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	12/16 (75%)	0.12	1 (8%)	11	8	35, 43, 60, 99	0
1	B	12/16 (75%)	-0.23	0	100	100	37, 48, 62, 62	0
1	C	12/16 (75%)	0.43	0	100	100	44, 62, 78, 85	0
1	D	12/16 (75%)	0.09	1 (8%)	11	8	44, 56, 68, 88	0
All	All	48/64 (75%)	0.10	2 (4%)	36	30	35, 54, 78, 99	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	8	ASP	3.4
1	D	8	ASP	2.1

6.2 Non-standard residues in protein, DNA, RNA chains (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
1	ORN	A	9	8/9	0.89	0.15	47,72,97,97	0
1	ORN	D	1	8/9	0.90	0.12	50,60,72,72	0
1	ORN	B	1	8/9	0.90	0.10	46,58,67,71	0
1	ORN	B	9	8/9	0.90	0.18	53,71,127,127	0
1	ORN	C	9	8/9	0.92	0.15	65,82,102,102	0
1	ORN	D	9	8/9	0.92	0.22	58,83,98,98	0
1	ORN	B	15	8/9	0.93	0.08	53,70,92,92	0
1	ORN	D	15	8/9	0.93	0.11	48,64,79,79	0
1	ORN	A	1	8/9	0.96	0.08	31,38,46,46	0
1	MEA	A	5	12/13	0.96	0.12	33,51,112,134	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
1	MEA	C	5	12/13	0.96	0.16	43,63,105,113	0
1	ORN	A	15	8/9	0.96	0.06	35,51,61,61	0
1	MEA	D	5	12/13	0.96	0.14	36,62,111,132	0
1	ORN	C	1	8/9	0.96	0.08	43,57,68,68	0
1	ORN	C	15	8/9	0.97	0.08	41,63,82,82	0
1	MEA	B	5	12/13	0.98	0.15	34,60,108,130	0

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	HEZ	A	102	8/8	0.67	0.25	76,95,107,108	0
3	HEZ	C	102	8/8	0.83	0.18	62,87,101,104	0
4	CL	C	101	1/1	0.84	0.18	77,77,77,77	0
3	HEZ	C	103	8/8	0.85	0.22	56,70,83,84	0
2	NA	A	101	1/1	0.85	0.15	71,71,71,71	0
4	CL	D	101	1/1	0.85	0.21	121,121,121,121	0
3	HEZ	A	103	8/8	0.90	0.21	46,66,79,83	0
2	NA	D	102	1/1	0.95	0.13	56,56,56,56	0

6.5 Other polymers (i)

There are no such residues in this entry.