



wwPDB EM Validation Summary Report ⓘ

Mar 19, 2026 – 07:38 PM UTC

PDB ID : 8CZ1 / pdb_00008cz1
EMDB ID : EMD-27090
Title : CryoEM structure of amplified alpha-synuclein fibril class B type II with extended core from DLB case VII
Authors : Zhou, Y.; Sokratian, A.; Xu, E.; Viverette, E.; Dillard, L.; Yuan, Y.; Li, J.Y.; Matarangas, A.; Bouvette, J.; Borgnia, M.; Bartesaghi, A.; West, A.
Deposited on : 2022-05-24
Resolution : 3.00 Å(reported)

This is a wwPDB EM 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/EMValidationReportHelp>

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:

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : **NOT EXECUTED**
MapQ : **FAILED**
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

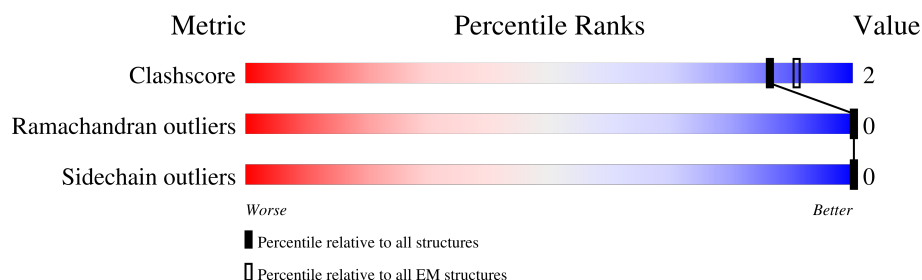
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.00 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)	EM structures (#Entries)
Clashscore	229148	23984
Ramachandran outliers	224038	23583
Sidechain outliers	223484	23102

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	A	140	49% . 49%
1	B	140	49% . 49%
1	C	140	49% . 49%
1	D	140	49% . 49%
1	E	140	49% . 49%
1	F	140	49% . 49%
1	I	140	49% . 49%
1	J	140	46% 5% 49%
1	K	140	47% . 49%

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Mol	Chain	Length	Quality of chain
1	L	140	49% 49%
1	M	140	49% 49%
1	N	140	50% 49%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 5964 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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.

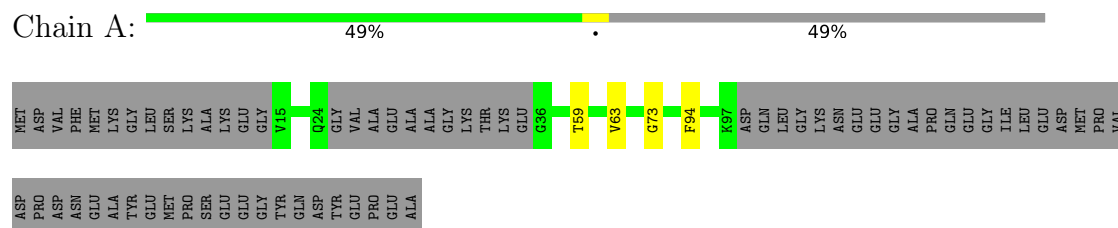
- Molecule 1 is a protein called Alpha-synuclein.

Mol	Chain	Residues	Atoms				AltConf	Trace
1	A	72	Total	C	N	O	0	0
			497	312	87	98		
1	L	72	Total	C	N	O	0	0
			497	312	87	98		
1	K	72	Total	C	N	O	0	0
			497	312	87	98		
1	J	72	Total	C	N	O	0	0
			497	312	87	98		
1	F	72	Total	C	N	O	0	0
			497	312	87	98		
1	D	72	Total	C	N	O	0	0
			497	312	87	98		
1	E	72	Total	C	N	O	0	0
			497	312	87	98		
1	I	72	Total	C	N	O	0	0
			497	312	87	98		
1	C	72	Total	C	N	O	0	0
			497	312	87	98		
1	N	72	Total	C	N	O	0	0
			497	312	87	98		
1	M	72	Total	C	N	O	0	0
			497	312	87	98		
1	B	72	Total	C	N	O	0	0
			497	312	87	98		

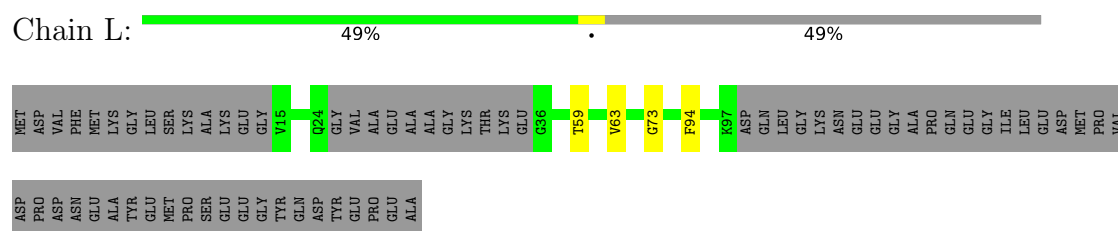
3 Residue-property plots [i](#)

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. 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. 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.

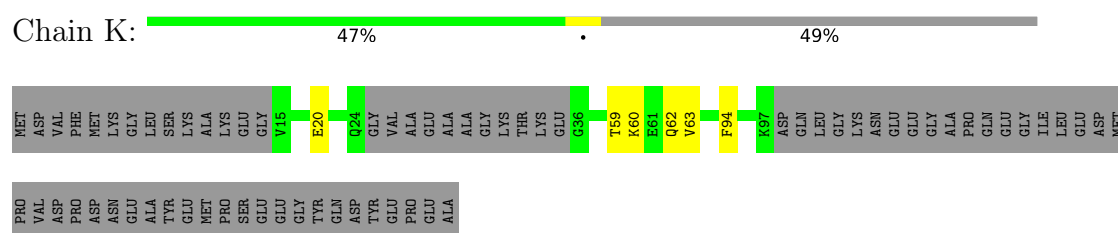
- Molecule 1: Alpha-synuclein



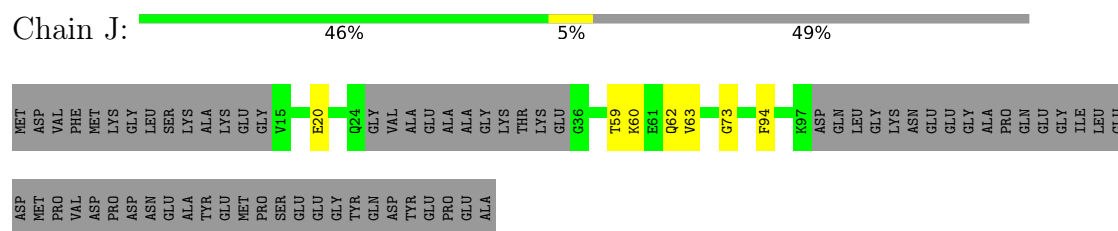
- Molecule 1: Alpha-synuclein



- Molecule 1: Alpha-synuclein



- Molecule 1: Alpha-synuclein



- Molecule 1: Alpha-synuclein

Chain F:  49% 49%

MET	ASP	ASN	VAL	PHE	MET	LYS	GLY	LEU	SER	ALA	LYS	GLY	GLY	V15	Q24	GLY	VAL	ALA	ALA	ALA	ALA	GLY	LYS	THR	LYS	GLY	G36	T59	V63	F94	K97	ASP	GLN	LEU	GLY	LYS	ASN	GLU	GLY	GLY	ALA	PRO	GLN	GLY	ILE	LEU	GLU	ASP	MET	PRO	VAL	ASP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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- Molecule 1: Alpha-synuclein

Chain D:  49% 49%

MET	ASP	ASN	VAL	PHE	MET	LYS	GLY	LEU	SER	LYS	ALA	LYS	GLY	V15	Q24	GLY	VAL	ALA	GLU	ALA	ALA	GLY	LYS	THR	LYS	GLU	G36	T59	V63	F94	K97	ASP	GLN	LEU	GLY	LYS	ASN	GLU	GLY	GLY	ALA	PRO	GLN	GLU	GLY	ILE	LEU	GLU	ASP	MET	PRO	VAL	ASP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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- Molecule 1: Alpha-synuclein

Chain E:  49% 49%

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Chain I:  49% 49%

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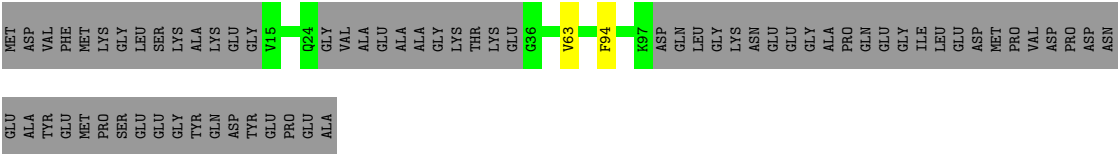
- Molecule 1: Alpha-synuclein

Chain C:  49% 49%

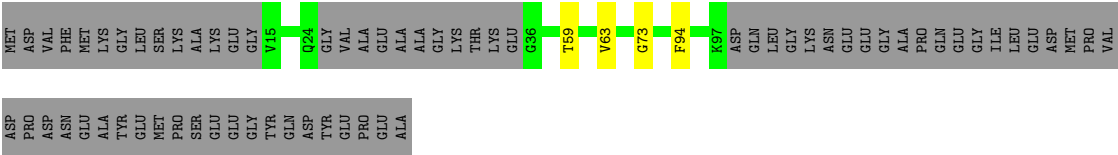
MET	ASP	ASN	VAL	PHE	MET	LYS	GLY	LEU	SER	LYS	ALA	LYS	GLY	V15	Q24	GLY	VAL	ALA	GLU	ALA	ALA	ALA	GLY	LYS	THR	LYS	GLY	G36	T59	V63	F94	K97	ASP	GLN	LEU	GLY	LYS	ASN	GLU	GLY	GLY	ALA	PRO	GLN	GLY	GLY	ILE	LEU	LEU	ASP	MET	PRO	PRO	VAL	ASP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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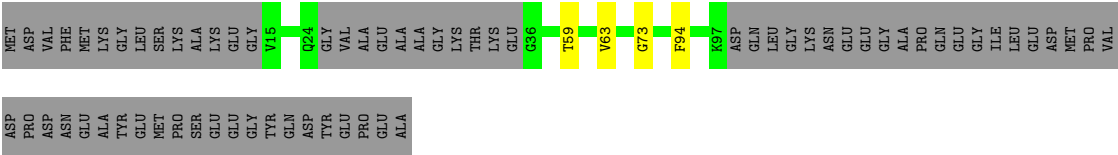
Chain N:  50% 49%



● Molecule 1: Alpha-synuclein



● Molecule 1: Alpha-synuclein



4 Experimental information

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=-0.79°, rise=4.84 Å, axial sym=C1	Depositor
Number of segments used	9296	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	0.14	0/498	0.33	0/671
1	B	0.13	0/498	0.33	0/671
1	C	0.14	0/498	0.33	0/671
1	D	0.13	0/498	0.33	0/671
1	E	0.13	0/498	0.33	0/671
1	F	0.14	0/498	0.33	0/671
1	I	0.14	0/498	0.33	0/671
1	J	0.14	0/498	0.33	0/671
1	K	0.14	0/498	0.33	0/671
1	L	0.13	0/498	0.33	0/671
1	M	0.14	0/498	0.33	0/671
1	N	0.14	0/498	0.33	0/671
All	All	0.14	0/5976	0.33	0/8052

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	497	0	529	3	0
1	B	497	0	529	4	0
1	C	497	0	529	3	0
1	D	497	0	529	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	E	497	0	529	3	0
1	F	497	0	529	2	0
1	I	497	0	529	3	0
1	J	497	0	529	7	0
1	K	497	0	529	5	0
1	L	497	0	529	3	0
1	M	497	0	529	3	0
1	N	497	0	529	1	0
All	All	5964	0	6348	26	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 2.

The worst 5 of 26 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:63:VAL:HG11	1:A:94:PHE:HE2	1.76	0.49
1:B:63:VAL:HG11	1:B:94:PHE:HE2	1.76	0.49
1:F:63:VAL:HG11	1:F:94:PHE:HE2	1.76	0.49
1:E:63:VAL:HG11	1:E:94:PHE:HE2	1.76	0.49
1:C:63:VAL:HG11	1:C:94:PHE:HE2	1.76	0.49

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 PDB entries followed by that with respect to all EM entries.

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	68/140 (49%)	66 (97%)	2 (3%)	0	100	100
1	B	68/140 (49%)	66 (97%)	2 (3%)	0	100	100
1	C	68/140 (49%)	66 (97%)	2 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	D	68/140 (49%)	66 (97%)	2 (3%)	0	100	100
1	E	68/140 (49%)	66 (97%)	2 (3%)	0	100	100
1	F	68/140 (49%)	66 (97%)	2 (3%)	0	100	100
1	I	68/140 (49%)	66 (97%)	2 (3%)	0	100	100
1	J	68/140 (49%)	66 (97%)	2 (3%)	0	100	100
1	K	68/140 (49%)	66 (97%)	2 (3%)	0	100	100
1	L	68/140 (49%)	66 (97%)	2 (3%)	0	100	100
1	M	68/140 (49%)	66 (97%)	2 (3%)	0	100	100
1	N	68/140 (49%)	66 (97%)	2 (3%)	0	100	100
All	All	816/1680 (49%)	792 (97%)	24 (3%)	0	100	100

There are no Ramachandran outliers to report.

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 PDB entries followed by that with respect to all EM entries.

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	50/103 (48%)	50 (100%)	0	100	100
1	B	50/103 (48%)	50 (100%)	0	100	100
1	C	50/103 (48%)	50 (100%)	0	100	100
1	D	50/103 (48%)	50 (100%)	0	100	100
1	E	50/103 (48%)	50 (100%)	0	100	100
1	F	50/103 (48%)	50 (100%)	0	100	100
1	I	50/103 (48%)	50 (100%)	0	100	100
1	J	50/103 (48%)	50 (100%)	0	100	100
1	K	50/103 (48%)	50 (100%)	0	100	100
1	L	50/103 (48%)	50 (100%)	0	100	100
1	M	50/103 (48%)	50 (100%)	0	100	100
1	N	50/103 (48%)	50 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	600/1236 (48%)	600 (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. 5 of 8 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	62	GLN
1	M	62	GLN
1	I	62	GLN
1	E	62	GLN
1	C	62	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](#)

There are no ligands in this entry.

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 Map visualisation

This section contains visualisations of the EMDB entry EMD-27090. These allow visual inspection of the internal detail of the map and identification of artifacts.

Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

This section was not generated.

6.2 Central slices

This section was not generated.

6.3 Largest variance slices

This section was not generated.

6.4 Orthogonal standard-deviation projections (False-color)

This section was not generated.

6.5 Orthogonal surface views

This section was not generated.

6.6 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

7 Map analysis ⓘ

This section contains the results of statistical analysis of the map.

7.1 Map-value distribution ⓘ

This section was not generated.

7.2 Volume estimate versus contour level ⓘ

This section was not generated.

7.3 Rotationally averaged power spectrum ⓘ

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit

This section was not generated.