

Amyloid-Forming peptide GNNQQNY

Cat. No.:	HY-P5340
CAS No.:	339091-39-3
Molecular Formula:	C ₃₃ H ₄₈ N ₁₂ O ₁₄
Molecular Weight:	836.81
Sequence:	Gly-Asn-Asn-Gln-Gln-Asn-Tyr
Sequence Shortening:	GNNQQNY
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Amyloid-Forming peptide GNNQQNY is a biological active peptide. (This is a heptapeptide from the N-terminal prion-determining domain of the yeast protein Sup35 that forms amyloid fibrils. The availability of its detailed atomic oligomeric structure makes it a good model for studying the early stage of aggregation. The GNNQQNY dimer forms three stable sheet structures. in-register parallel, off-register parallel, and anti-parallel. The in-register parallel dimer, which is close to the amyloid beta-sheet structure, has few interpeptide hydrogen bonds, making hydrophobic interactions more important and increasing the conformational entropy compared to the anti-parallel sheet.)

Caution: Product has not been fully validated for medical applications. For research use only.

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