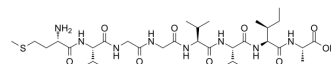


β-Amyloid (35-42)

Cat. No.:	HY-P1903
CAS No.:	183292-41-3
Molecular Formula:	C ₃₃ H ₆₀ N ₈ O ₉ S
Molecular Weight:	744.94
Sequence:	Met-Val-Gly-Gly-Val-Val-Ile-Ala
Sequence Shortening:	MVGGVIA
Target:	Amyloid-β
Pathway:	Neuronal Signaling
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* The compound is unstable in solutions, freshly prepared is recommended.

SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (67.12 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.3424 mL	6.7120 mL	13.4239 mL
		5 mM	0.2685 mL	1.3424 mL	2.6848 mL
		10 mM	0.1342 mL	0.6712 mL	1.3424 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (3.36 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.36 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	β-Amyloid (35-42) is a peptide consisting of amino acid of 35 to 42 of beta amyloid protein.
In Vitro	<p>β-Amyloid Aggregation Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <ol style="list-style-type: none"> Solid Aβ peptide was dissolved in cold hexafluoro-2-propanol (HFIP). The peptide was incubated at room temperature for at least 1h to establish monomerization and randomization of structure. The HFIP was removed by evaporation, and the resulting peptide was stored as a film at -20 or -80 °C.

3. The resulting film was dissolved in anhydrous DMSO at 5 mM and then diluted into the appropriate concentration and buffer (serum- and phenol red-free culture medium) with vortexing.

4. Next, the solution was aged 48h at 4-8 °C. The sample was then centrifuged at 14000g for 10 min at 4-8 °C; the soluble oligomers were in the supernatant. The supernatant was diluted 10-200-fold for experiments.

Methods vary depends on the downstream applications.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hubin E, et, al. Two distinct β -sheet structures in Italian-mutant amyloid-beta fibrils: a potential link to different clinical phenotypes. Cell Mol Life Sci. 2015 Dec;72(24):4899-913.

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

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