RedChemExpress

Product Data Sheet

β -Amyloid (1-42), (rat/mouse)

Cat. No.:	HY-P1388
CAS No.:	166090-74-0
Molecular Formula:	C ₁₉₉ H ₃₀₇ N ₅₃ O ₅₉ S
Molecular Weight:	4418.02 Daefghdsgfevrhoklvffaedvgsnkgaiiglmvggvvia
Sequence:	Asp-Ala-Glu-Phe-Gly-His-Asp-Ser-Gly-Phe-Glu-Val-Arg-His-Gln-Lys-Leu-Val-Phe-Phe-Al a-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Val-Val-Val-Ile-Ala
Sequence Shortening:	DAEFGHDSGFEVRHQKLVFFAEDVGSNKGAIIGLMVGGVVIA
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 : 25 mg/mL (5.6	66 mM; Need ultrasonic)			
		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	0.2263 mL	1.1317 mL	2.2635 mL
		5 mM	0.0453 mL	0.2263 mL	0.4527 mL
		10 mM			
	Please refer to the so	lubility information to select the ap	propriate solvent.		
In Vivo		one by one: 10% DMSO >> 90% (20 /mL (0.57 mM); Suspended solution;	• •		
		one by one: 10% DMSO >> 90% co g/mL (0.57 mM); Clear solution	rn oil		

Description β-Amy researc
researd
IC ₅₀ & Target Amylo
In Vitro β-Amy

should be modified according to your specific needs). 1. 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. 2. The HFIP was removed by evaporation, and the resulting peptide was stored as a film at -20 or -80 \boxtimes 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 \boxtimes . The sample was then centrifuged at 14000g for 10 min at 4-8 \boxtimes ; 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.

CUSTOMER VALIDATION

• Sci Rep. 2023 Aug 21;13(1):13586.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Chennakesavan Karthick, et al. Time-dependent effect of oligomeric amyloid-β (1-42)-induced hippocampal neurodegeneration in rat model of Alzheimer's disease. Neurol Res. 2019 Feb;41(2):139-150.

[2]. Mozes E, et al. A novel method for the rapid determination of beta-amyloid toxicity on acute hippocampal slices using MTT and LDH assays. Brain Res Bull. 2012 Apr 10;87(6):521-5.

[3]. Lagunes T, et al. Abeta(1-42) induces abnormal alternative splicing of tau exons 2/3 in NGF-induced PC12 cells. An Acad Bras Cienc. 2014 Dec;86(4):1927-34.

[4]. Stefania Sabella, et al. Capillary electrophoresis studies on the aggregation process of beta-amyloid 1-42 and 1-40 peptides. Electrophoresis. 2004 Oct;25(18-19):3186-94.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA