Data Sheet (Cat.No.TP1007L)

TargetMol

β-Amyloid (1-42), acetate (human)

Chemical Properties

CAS No. :

Formula:

Molecular Weight: 4574.68

Storage: Store at low temperature,Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

β-Amyloid (1-42), human acetate (107761-42-2 Free

Biological Description

Description	β-Amyloid (1-42), acetate (human) is a peptide consisting of 42 amino acids that is part of β-Amyloid and is commonly used in Alzheimer's disease modeling.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 21.43 mg/mL (4.68 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	PBS: <0.2 mg/mL (Insoluble) *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2186 mL	1.093 mL	2.1859 mL
5 mM	0.0437 mL	0.2186 mL	0.4372 mL
10 mM	0.0219 mL	0.1093 mL	0.2186 mL
50 mM	0.0044 mL	0.0219 mL	0.0437 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Solntseva EI, et al. Impact of amyloid-β peptide (1-42) on voltage-gated ion currents in molluscan neurons. Bull Exp Biol Med. 2011 Oct;151(6):671-4.
Barucker C, et al. Nuclear translocation uncovers the amyloid peptide Aβ42 as a regulator of gene transcription. J Biol Chem. 2014 Jul 18;289(29):20182-91.
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.

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