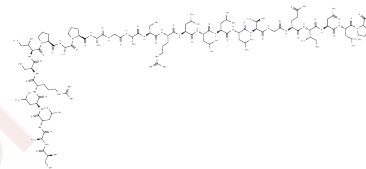


Colivelin

Chemical Properties

CAS No. :	867021-83-8
Formula:	C119H206N32O35
Molecular Weight:	2645.1
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Colivelin is a neuroprotective peptide and activator of STAT3. Colivelin is a hybrid peptide synthesized to enhance the neuroprotective effects of humanin (HN).
Targets(IC50)	Beta Amyloid,STAT

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble) DMSO: 50 mg/mL (18.9 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	PBS: < 1 mg/mL (Insoluble or slightly soluble) 5% DMSO+40% PEG300+5% Tween 80+50% Saline: 1 mg/mL (0.38 mM),Solution. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3781 mL	1.8903 mL	3.7806 mL
5 mM	0.0756 mL	0.3781 mL	0.7561 mL
10 mM	0.0378 mL	0.189 mL	0.3781 mL
50 mM	0.0076 mL	0.0378 mL	0.0756 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

Yamada M, et al. Nasal Colivelin treatment ameliorates memory impairment related to Alzheimer's disease. *Neuropsychopharmacology*. 2008 Jul;33(8):2020-32.

Liang, Ningjuan, et al. Clusterin inhibits Cr (VI)-induced apoptosis via enhancing mitochondrial biogenesis through AKT-associated STAT3 activation in L02 hepatocytes.. *Ecotoxicology and Environmental Safety*. 221 (2021): 112447.

Zhang P, Wang X, Yang X, et al. Molecular control of PDPN hi macrophage subset induction by ADAP as a host defense in sepsis. *JCI insight*. 2025

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