

Peptide5 acetate

Chemical Properties

CAS No. :

Formula: C₆₂H₉₉F₃N₁₆O₂₂S

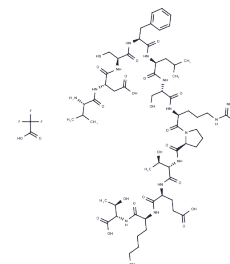
Molecular Weight: 1509.604

Storage:

Store at low temperature, Store under nitrogen, 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.



Biological Description

Description	Peptide5 acetate reduces animal swelling, astrogliosis, and neuronal cell death after spinal cord injury. Peptide5 acetate significantly reduces the degree of spinal cord injury (SCI) in a rodent ex vivo model.
Targets(IC50)	Others
In vitro	Treatment with Peptide5 acetate reduced both the level of Cx43 and the number of glial fibrillary acidic protein (GFAP)-positive astrocytes, and at the same time reduces the loss of NeuN- and SMI-32-positive neurons in a concentration- and time-dependent manner. Peptide5 acetate produces a more significant reduction in swelling[2].
In vivo	Peptide5 acetate can be used in the treatment of traumatic spinal cord injured rats[2].

Solubility Information

Solubility	DMSO: 50.00 mg/mL (33.12 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6624 mL	3.3121 mL	6.6243 mL
5 mM	0.1325 mL	0.6624 mL	1.3249 mL
10 mM	0.0662 mL	0.3312 mL	0.6624 mL
50 mM	0.0132 mL	0.0662 mL	0.1325 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

Yilin Mao, et al. Characterisation of Peptide5 systemic administration for treating traumatic spinal cord injured rats. *Exp Brain Res.* 2017 Oct;235(10):3033-3048.

Simon J O'Carroll, et al. Connexin 43 mimetic peptides reduce swelling, astrogliosis, and neuronal cell death after spinal cord injury. *Cell Commun Adhes.* 2008 May;15(1):27-42.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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