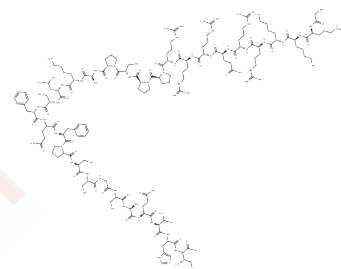


TAT-DEF-Elk-1

Chemical Properties

CAS No. :	1220751-16-5
Formula:	C155H259N57O40
Molecular Weight:	3561.136
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	TAT-DEF-Elk-1 is a cell-penetrating peptide Elk-1 inhibitor.
Targets(IC50)	ERK,Others
In vitro	Elk-1 phosphorylation on Ser383/389 simultaneously induces Elk-1 nuclear translocation and SRE-dependent gene expression. TAT-DEF-Elk-1 (5 μ M for 2 hours) significantly inhibits c-Fos, Zif268, and JunB without affecting c-Jun expression. Additionally, TAT-DEF-Elk-1 (5-10 μ M for 1 hour) specifically inhibits glutamate-induced Elk-1 activation without interfering with ERK, MSK-1, or CREB phosphorylation [1].
In vivo	TAT-DEF-Elk-1 (i.p.; 1mg/kg; daily; 14 days) reflects antidepressant efficacy in mice, it decreases immobility similar to the antidepressant desipramine and fluoxetine [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2808 mL	1.404 mL	2.8081 mL
5 mM	0.0562 mL	0.2808 mL	0.5616 mL
10 mM	0.0281 mL	0.1404 mL	0.2808 mL
50 mM	0.0056 mL	0.0281 mL	0.0562 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

Lavaur J, et al. A TAT-DEF-Elk-1 peptide regulates the cytonuclear trafficking of Elk-1 and controls cytoskeleton dynamics. J Neurosci. 2007 Dec 26;27(52):14448-58.

Apazoglou K, et al. Antidepressive effects of targeting ELK-1 signal transduction. Nat Med. 2018 May;24(5):591-597.

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