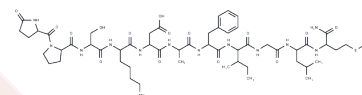


Eledoisin

Chemical Properties

CAS No. :	69-25-0
Formula:	C54H85N13O15S
Molecular Weight:	1188.4
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	Eledoisin (Eledone peptide) is an undecapeptide of mollusk origin in the tachykinin family of neuropeptides, serving as a specific agonist of NK2 and NK3 receptors.
Targets(IC50)	Neurokinin receptor
In vitro	Eledoisin increases basal activity by 24.5±3.7%; however, its stimulation is significantly reduced to 13.1±1.9% in the presence of CP99994 (P<0.01). This effect demonstrates the compound's sensitivity to CP99994, further validated through similar tests with 0.1 μM SR48968 and 0.1 μM SB222200. SR48968 significantly decreases Eledoisin's effect (P<0.01), whereas SB222200 does not alter it. This data collectively indicates that Eledoisin's stimulatory action is diminished by CP99994 and SR48968, which are NK1 and NK2 antagonists, respectively[1].
In vivo	Injection of Eledoisin (0.1-1 nmol/kg) into rats produces a biphasic cardiovascular response that consists of an initial fall of systemic blood pressure (8-15 mm Hg) followed by a rise (20-22 mm Hg).

Solubility Information

Solubility	H2O: 18.15 mg/mL (15.27 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8415 mL	4.2073 mL	8.4147 mL
5 mM	0.1683 mL	0.8415 mL	1.6829 mL
10 mM	0.0841 mL	0.4207 mL	0.8415 mL
50 mM	0.0168 mL	0.0841 mL	0.1683 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

Lippe C, et al. Eledoisin and Kassinin, but not Enterokassinin, stimulate ion transport in frog skin. *Peptides*. 2004 Nov;25(11):1971-5.

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