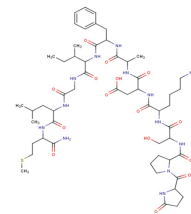


Eledoisin

Chemical Properties

CAS No.:	69-25-0
Formula:	C ₅₄ H ₈₅ N ₁₃ O ₁₅ S
Molecular Weight:	1188.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Eledoisin is a specific agonist of NK2 and NK3 receptors. Eledoisin is an undecapeptide of mollusk origin, belonging to the tachykinin family of neuropeptides.
In vitro	Eledoisin (0.1-1 nmol/kg) injected 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). Intracerebroventricular injection of Eledoisin produces an enhancement of grooming and scratching behavior in mice[2].
In vivo	Eledoisin increases the value recorded under basal conditions by 24.5±3.7%; this stimulation is significantly (P<0.01) lowered to 13.1±1.9% by the simultaneous presence of CP99994. The same protocol is also used to characterize the sensitivity of Eledoisin stimulation to 0.1 µM SR48968 or 0.1 µM SB222200. SR48968 significantly (P < 0.01) lower the stimulation by Eledoisin, while SB222200 has no effect. Eledoisin stimulation is reduced by CP99994 and SR48968, NK1 and NK2 antagonists, respectively[1].

Solubility Information

Solubility	H ₂ O: 18.15 mg/mL (15.27 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.841 mL	4.207 mL	8.415 mL
5 mM	0.168 mL	0.841 mL	1.683 mL
10 mM	0.084 mL	0.421 mL	0.841 mL
50 mM	0.017 mL	0.084 mL	0.168 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Lippe C, et al. Eledoisin and Kassinin, but not Enterokassinin, stimulate ion transport in frog skin. *Peptides*. 2004 Nov;25(11):1971-5.
2. Severini C, et al. The tachykinin peptide family. *Pharmacol Rev*. 2002 Jun;54(2):285-322.

Inhibitors · Natural Compounds · Compound Libraries

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