

Eleodoisin

Cat. No.:	HY-P0006		
CAS No.:	69-25-0		
Molecular Formula:	C ₅₄ H ₈₅ N ₁₃ O ₁₅ S		
Molecular Weight:	1188.4	{Glp}-PSKDAFIGLM-NH ₂	
Sequence:	{Glp}-Pro-Ser-Lys-Asp-Ala-Phe-Ile-Gly-Leu-Met-NH ₂		
Sequence Shortening:	{Glp}-PSKDAFIGLM-NH ₂		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-80°C	2 years
		-20°C	1 year
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

In Vitro

H₂O : 18.15 mg/mL (15.27 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration	Mass		
	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	Eleodoisin (Eledone peptide) is a specific agonist of NK2 and NK3 receptors.
IC₅₀ & Target	NK2 and NK3 receptors ^[1] .
In Vitro	Eleodoisin (Eledone peptide) 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 Eleodoisin stimulation to 0.1 μM SR48968 or 0.1 μM SB222200. SR48968 significantly (P < 0.01) lower the stimulation by Eleodoisin, while SB222200 has no effect. Eleodoisin stimulation is reduced by CP99994 and SR48968, NK1 and NK2 antagonists, respectively ^[1] .
In Vivo	Eleodoisin (Eledone peptide; 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].

REFERENCES

- [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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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