

Kinetensin

Chemical Properties

CAS No.:	103131-69-7
Formula:	C ₅₆ H ₈₅ N ₁₇ O ₁₁
Molecular Weight:	1172.38
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Kinetensin is a neurotensin-like peptide.
In vitro	The peptide kinetensin isolated from pepsin-treated human plasma induces a dose-dependent release of histamine when exposed to rat peritoneal mast cells. The threshold concentration is around 1 µM, the ED50 is 10 µM, and the optimal concentration of between 100 to 1000 µM released 80% of the total histamine. Kinetensin is 10 to 100 times less potent than neurotensin and equipotent with the opioid peptide dynorphin. The histamine release is clearly temperature-dependent, with no release occurring at 0 or 45 °C and with an optimum around 37 °C. The histamine release is significantly reduced in the absence of extracellular calcium[2].
In vivo	Kinetensin also induces a dose-dependent increase in vascular permeability when injected intradermally into rats[2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.853 mL	4.265 mL	8.53 mL
5 mM	0.171 mL	0.853 mL	1.706 mL
10 mM	0.085 mL	0.426 mL	0.853 mL
50 mM	0.017 mL	0.085 mL	0.171 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. Mogard MH, et al. The amino acid sequence of kinetensin, a novel peptide isolated from pepsin-treated human plasma: homology with human serum albumin, neurotensin and angiotensin. *Biochem Biophys Res Commun*. 1986 May 14;136(3):983-8.

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