

## Kinetensin acetate(103131-69-7 free base)

## Chemical Properties

CAS No. :

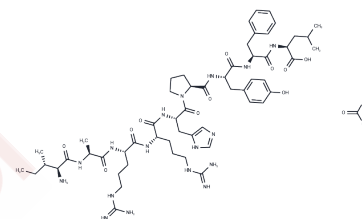
Formula: C58H89N17O13

Molecular Weight: 1232.45

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Kinetensin acetate(103131-69-7 free base) is isolated from pepsin-treated human plasma. Kinetensin acetate(103131-69-7 free base) is a neurotensin-like peptide.
Targets(IC50)	Neurotensin Receptor
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 $\mu$ M, the ED50 is 10 $\mu$ M, and the optimal concentration of between 100 to 1000 $\mu$ M 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	DMSO: 10 mM, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.8114 mL	4.057 mL	8.1139 mL
5 mM	0.1623 mL	0.8114 mL	1.6228 mL
10 mM	0.0811 mL	0.4057 mL	0.8114 mL
50 mM	0.0162 mL	0.0811 mL	0.1623 mL

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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

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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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481