

Leucokinin VIII acetate

Chemical Properties

CAS No. :

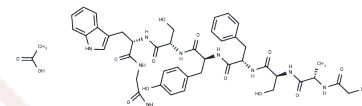
Formula: C44H56N10O13

Molecular Weight: 932.99

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	Leucokinin VIII acetate (Leucokinin 8) is an diuretic octapeptide isolated form head extracts of the cockroach.
Targets(IC50)	Others
In vitro	Leucokinin VIII is an octapeptide, increases the rates of transepithelial NaCl, KCl and water secretion, increases the Cl conductance of the epithelial shunt via a receptor located at the basolateral side of the epithelium[1]. Leucokinin VIII also activates Ca ²⁺ -dependent signal pathway in principal cells of Aedes aegypti Malpighian tubules[2].

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble) Methanol: < 1 mg/mL (insoluble or slightly soluble) DMSO: 100 mg/mL (107.18 mM) H2O: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0718 mL	5.3591 mL	10.7182 mL
5 mM	0.2144 mL	1.0718 mL	2.1436 mL
10 mM	0.1072 mL	0.5359 mL	1.0718 mL
50 mM	0.0214 mL	0.1072 mL	0.2144 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

Pannabecker TL, et al. Regulation of epithelial shunt conductance by the peptide leucokinin. J Membr Biol. 1993 Feb;132(1):63-76.

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