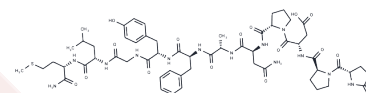


Uperolein

Chemical Properties

CAS No. :	55601-63-3
Formula:	C57H79N13O16S
Molecular Weight:	1234.38
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Uperolein, a physalaemin-like endecapeptide derived from the skin of Uperoleia rugosa and Uperoleia marmorata, exhibits spasmodic activity on the gastrointestinal tract and longitudinal muscles [1] [2] [3].
Targets(IC50)	Neurokinin receptor
In vitro	Uperolein, a tachykinin analogue present at concentrations of 10-100 ng/mL, induces or enhances rhythmic contractions and elevates the tone of isolated circular and longitudinal muscular layers throughout the human gastrointestinal tract, ranging from the stomach to the colon [2].
In vivo	Uperolein, administered intravenously at doses of 0.1 µg/kg and 5 µg/kg as a single injection, demonstrates significant stimulatory effects on the stomach in anesthetized rats, and induces marked spasmogenic responses throughout the entire stomach, from the fundus to the pylorus [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8101 mL	4.0506 mL	8.1012 mL
5 mM	0.162 mL	0.8101 mL	1.6202 mL
10 mM	0.081 mL	0.4051 mL	0.8101 mL
50 mM	0.0162 mL	0.081 mL	0.162 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.

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