

Mastoparan acetate(72093-21-1 free base)

Chemical Properties

CAS No. : 79396-78-4

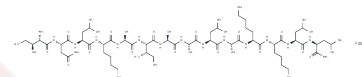
Formula: C72H135N19O17

Molecular Weight: 1538.99

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	Mastoparan acetate is a peptide toxin from wasp venom. It has the chemical structure Ile-Asn-Leu-Lys-Ala-Leu-Ala-Ala-Leu-Ala-Lys-Lys-Ile-Leu-NH2.
Targets(IC50)	Others
In vitro	Mastoparan has an amphiphilic nature and is reported to exert a variety of pharmacological and biochemical effects. Mastoparan induces exocytosis of hormones from anterior pituitary cells. Mastoparan stimulation of prolactin secretion is dose-dependent, time-dependent, reversible and required the presence of calcium. Mastoparan causes translocation of protein kinase C activity from a soluble to a membrane-attached form. Mastoparan is able to increase the intracellular Ca ²⁺ concentration in Fura-2-loaded individual lactotrophs. Mastoparan is also able to interact with GTP-binding proteins. Thus, Mastoparan has been shown to facilitate exchange of nucleotides and to stimulate GTPase activity on G-proteins. It has therefore been proposed that the cellular effects of Mastoparan are due to an ability to mimic G-protein-linked agonist-liganded receptors[1].

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

	1mg	5mg	10mg
1 mM	0.6498 mL	3.2489 mL	6.4978 mL
5 mM	0.130 mL	0.6498 mL	1.2996 mL
10 mM	0.065 mL	0.3249 mL	0.6498 mL
50 mM	0.013 mL	0.065 mL	0.130 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

Mau SE, et al. Mastoparan, a wasp venom peptide, stimulates release of prolactin from cultured rat anterior pituitary cells. J Endocrinol. 1994 Jul;142(1):9-18.

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