Mastoparan

Cat. No.:	HY-P0246	
CAS No.:	72093-21-1	
Molecular Formula:	C ₇₀ H ₁₃₁ N ₁₉ O ₁₅	
Molecular Weight:	1478.91	INLKALAALAKKIL-NH2
Sequence:	Ile-Asn-Leu-Lys-Ala-Leu-Ala-Ala-Leu-Ala-Lys-Lys-Ile-Leu-NH2	
Sequence Shortening:	INLKALAALAKKIL-NH2	
Target:	Others	
Pathway:	Others	
Storage:	Sealed storage, away from moisture	
	Powder -80°C 2 years	
	-20°C 1 year	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY



BIOLOGICAL ACTIVITY		
Description	Mastoparan, a tetradecapeptide which is a component of wasp venom, stimulates release of prolactin from cultured rat anterior pituitary cells.	
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-bindmg 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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	



REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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