



LKT Laboratories, Inc.

Mastoparan X

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Product Information

Product ID M0173

CAS No. 72093-22-2

Chemical Name

Synonym Mast cell degranulating peptide (Vespa xanthoptera) (9CI)

Formula C₇₃H₁₂₆N₂₀O₁₅S

Formula Wt. 1556.01

Melting Point

Purity ≥95%

Solubility Soluble in water (1 mg/mL).

Store Temp -20°C

Ship Temp Ambient

Description Mastoparan X is an antimicrobial/antibacterial peptide (AMP) derived from the venom of bees and wasps. Mastoparan X activates mast cells through binding and activation of the Gα subunit of GPCRs. Mastoparan X enters into neutral and negatively charged membranes, causing formation and leakage of giant unilamellar vesicles and inducing barrier disruptions.

H-Ile-Asn-Trp-Lys-Gly-Ile-Ala-Ala-Met-Ala-Lys-Lys-Leu-Leu-NH₂

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
M0173	1 mg	\$75.70
M0173	2 mg	\$129.30
M0173	5 mg	\$226.90

References dos Santos LD, Aparecido dos Santos Pinto JR, Menegasso AR, et al. Proteomic profiling of the molecular targets of interactions of the mastoparan peptide Protopolybia MP-III at the level of endosomal membranes from rat mast cells. *Proteomics*. 2012 Aug;12(17):2682-93. PMID: 22761183.

Cabrera MP, Alvares DS, Leite NB, et al. New insight into the mechanism of action of wasp mastoparan peptides: lytic activity and clustering observed with giant vesicles. *Langmuir*. 2011 Sep 6;27(17):10805-13. PMID: 21797216.

Etzerodt T, Henriksen JR, Rasmussen P, et al. Selective acylation enhances membrane charge sensitivity of the antimicrobial peptide mastoparan-x. *Biophys J*. 2011 Jan 19;100(2):399-409. PMID: 21244836.

Todokoro Y, Yumen I, Fukushima K, et al. Structure of tightly membrane-bound mastoparan-X, a G-protein-activating peptide, determined by solid-state NMR. *Biophys J*. 2006 Aug 15;91(4):1368-79. PMID: 16714348.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.