



LKT Laboratories, Inc.

Mastoparan 7

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Product Information

Product ID M0272

CAS No. 145854-59-7

Chemical Name

Synonym Mas7

Formula $C_{67}H_{124}N_{18}O_{15}$

Formula Wt. 1421.85

Melting Point

Purity $\geq 95\%$

Solubility Soluble in DMSO.

Store Temp -20°C

Ship Temp Ambient

Description Mastoparan 7 is an antimicrobial peptide (AMP) derived from the venom of bees and wasps that activates Gi/o GPCRs, increasing release of downstream signaling messengers such as cAMP, atrial natriuretic factor, and ATP. Mastoparan 7 restores neurotransmitter release from spinal cord cells treated with botulinum toxin serotype A. Additionally, mastoparan 7 activates phospholipase A2 (PLA2). TEST!!!!!!

H-Ile-Asn-Leu-Lys-Ala-Leu-Ala-Ala-Leu-Ala-Lys-Ala-Leu-Leu-NH₂

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
M0272	1 mg	\$63.00
M0272	2 mg	\$107.00
M0272	5 mg	\$189.00

References Zhang P, Ray R, Singh BR, et al. Mastoparan-7 rescues botulinum toxin-A poisoned neurons in a mouse spinal cord cell culture model. *Toxicon*. 2013 Dec 15;76:37-43. PMID: 24047963.

Sprague RS, Bowles EA, Achilleus D, et al. A selective phosphodiesterase 3 inhibitor rescues low PO₂-induced ATP release from erythrocytes of humans with type 2 diabetes: implication for vascular control. *Am J Physiol Heart Circ Physiol*. 2011 Dec;301(6):H2466-72. Erratum in: *Am J Physiol Heart Circ Physiol*. 2012 Jan;302(1):H378. PMID: 21963837.

Sprague R, Bowles E, Stumpf M, et al. Rabbit erythrocytes possess adenylyl cyclase type II that is activated by the heterotrimeric G proteins Gs and Gi. *Pharmacol Rep*. 2005;57 Suppl:222-8. PMID: 16415502.

Bensimon M, Chang AI, de Bold ML, et al. Participation of G proteins in natriuretic peptide hormone secretion from heart atria. *Endocrinology*. 2004 Nov;145(11):5313-21. PMID: 15308619.

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