



LKT Laboratories, Inc.

## Peptide 401

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### Product Information

Product ID P0276

CAS No. 32908-73-9

**Chemical Name**

Synonym Mast Cell Degranulating Peptide

Formula  $C_{110}H_{188}N_{40}O_{24}S_4$

Formula Wt. 2583.28

Melting Point

Purity  $\geq 95\%$

Solubility Soluble in water.

Store Temp  $-20^{\circ}\text{C}$

Ship Temp Ambient

**Description** Peptide 401 is an antimicrobial peptide (AMP) derived from the venom of bees and wasps. Peptide 401 induces mast cell degranulation, activating histamine release from peritoneal mast cells. Additionally, peptide 401 exhibits some anti-inflammatory activity, decreasing paw edema in animal models.

H-Ile-Lys-Cys-Asn-Cys-Lys-Arg-His-Val-Ile-Lys-Pro-His-Ile-Cys-Arg-Lys-Ile-Cys-Gly-Lys-Asn-NH<sub>2</sub>  
(Cys3-Cys15, Cys5-Cys19)

### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
P0276	0.5 mg	\$273.00
P0276	1 mg	\$509.30
P0276	2.5 mg	\$945.10

**References** Banks BE, Dempsey CE, Vernon CA, et al. Anti-inflammatory activity of bee venom peptide 401 (mast cell degranulating peptide) and compound 48/80 results from mast cell degranulation in vivo. Br J Pharmacol. 1990 Feb;99(2):350-4. PMID: 2328399.

Ennis M, Atkinson G, Pearce FL. Inhibition of histamine release induced by compound 48/80 and peptide 401 in the presence and absence of calcium. Implications for the mode of action of anti-allergic compounds. Agents Actions. 1980 Jun;10(3):222-8. PMID: 6157320.

Hanson JM, Morley J, Soria-Herrera C. Anti-inflammatory property of 401 (MCD-peptide), a peptide from the venom of the bee Apis mellifera (L.). Br J Pharmacol. 1974 Mar;50(3):383-92. PMID: 4152780.

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