



LKT Laboratories, Inc.

Papain Inhibitor

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lctlabs.com
Web: lctlabs.com

Product Information

Product ID P0260

CAS No. 70195-20-9

Chemical Name

Synonym

Formula $C_{19}H_{29}N_7O_6$

Formula Wt. 451.49

Melting Point

Purity $\geq 95\%$

Solubility Soluble in DMSO.

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

Ship Temp Ambient

Description Papain inhibitor is a peptide that may exhibit antibacterial activity. Methyl jasmonate signaling induces production of this peptide in tomato leaves. Papain inhibitor peptide may inhibit the enzymatic activity of cathepsins and trypsin.

H-Gly-Gly-Tyr-Arg-OH

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
P0260	5 mg	\$75.70
P0260	10 mg	\$129.30
P0260	25 mg	\$226.90

References Zindel S, Kaman WE, Fröls S, et al. The papain inhibitor (SPI) of *Streptomyces mobaraensis* inhibits bacterial cysteine proteases and is an antagonist of bacterial growth. *Antimicrob Agents Chemother.* 2013 Jul;57(7):3388-91. PMID: 23587952.

Bolter CJ. Methyl Jasmonate Induces Papain Inhibitor(s) in Tomato Leaves. *Plant Physiol.* 1993 Dec;103(4):1347-1353. PMID: 12232028.

Keilová H, Tomásek V. Naturally occurring inhibitors of intracellular proteinases. *Acta Biol Med Ger.* 1977;36(11-12):1873-81. PMID: 616734.

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