



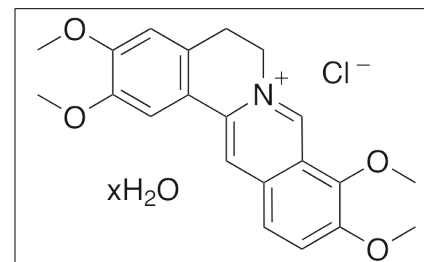
LKT Laboratories, Inc.

Palmatine Chloride Hydrate

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

Product Information

Product ID P0245
CAS No. 171869-95-7
Chemical Name 5,6-Dihydro-2,3,9,10-tetramethoxydibenzo[a,g]quinolizinium chloride hydrate
Synonym Berbericine, Palmatin
Formula $C_{21}H_{22}ClNO_4 \cdot xH_2O$
Formula Wt. 387.86
Melting Point 206-207°C(dec)
Purity ≥96%
Solubility Soluble in hot water and alcohol.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
P0245	1 g	\$61.10
P0245	5 g	\$183.60
P0245	10 g	\$255.30

Store Temp -20°C

Ship Temp Ambient

Description Palmatine is an isoquinoline alkaloid found in *Corydalis*, *Phellodendron*, *Enantia*, and other plants. Palmatine exhibits sedative, antidepressant, antioxidative, anti-ulcerative, antacid, anticancer, and anti-metastatic activities. Palmatine binds hemoglobin and DNA at AT base pairs. In animal models, palmatine decreases locomotor activity and levels of dopamine, 5-HT, and homovanillic acid. In prostate cancer cells, palmatine decreases growth and invasion as well as activation of FLIP and NF-κB. Palmatine also decreases immobility time in animals undergoing the forced swim test and tail suspension test. In separate animal models, this compound acts as a radical scavenger, inhibits *Helicobacter* growth, and decreases gastric ulcer formation.

References Hambright HG, Batth IS, Xie J, et al. Palmatine inhibits growth and invasion in prostate cancer cell: Potential role for rpS6/NFκB/FLIP. *Mol Carcinog*. 2014 Jul 7. [Epub ahead of print]. PMID: 25043857.

Liu B, Yan X, Cao S, et al. Studies on the interaction of palmatine hydrochloride with bovine hemoglobin. *Luminescence*. 2014 May;29(3):211-8. PMID: 23696111.

Jung J, Choi JS, Jeong CS. Inhibitory Activities of Palmatine from *Coptis chinensis* Against *Helicobacter pylori* and Gastric Damage. *Toxicol Res*. 2014 Mar;30(1):45-8. PMID: 24795799.

Dhingra D, Bhankher A. Behavioral and biochemical evidences for antidepressant-like activity of palmatine in mice subjected to chronic unpredictable mild stress. *Pharmacol Rep*. 2014 Feb;66(1):1-9. PMID: 24905299.

Bhadra K, Maiti M, Kumar GS. Molecular recognition of DNA by small molecules: AT base pair specific intercalative binding of cytotoxic plant alkaloid palmatine. *Biochim Biophys Acta*. 2007 Jul;1770(7):1071-80. PMID: 17434677.

Hsieh MT, Su SH, Tsai HY, et al. Effects of palmatine on motor activity and the concentration of central monoamines and its metabolites in rats. *Jpn J Pharmacol*. 1993 Jan;61(1):1-5. PMID: 7679763.

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