



LKT Laboratories, Inc.

Sinomenine Hydrochloride

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Product Information

Product ID S3353

CAS No. 6080-33-7

Chemical Name (9 α ,13 α ,14 α)-7,8-Didehydro-4-hydroxy-3,7-di-methoxy-17-methylmorphinan-6-one hydrochloride

Synonym

Formula C₁₉H₂₃NO₄ • HCl

Formula Wt. 365.86

Melting Point 229-235°C

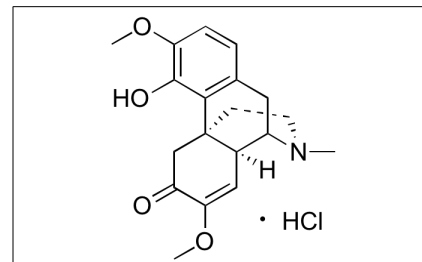
Purity ≥98%

Solubility Soluble in chloroform,
ethanol acetone or toluene.

Store Temp 4°C

Ship Temp Ambient

Description Sinomenine is an alkaloid found in *Sinomenium* that exhibits analgesic, neuroprotective, anti-inflammatory, immunomodulatory, anti-allergic, and anticancer chemotherapeutic activities. In vivo, sinomenine improves mechanical withdrawal threshold and cold pain sensitivity. Sinomenine also decreases OVA-induced allergies in animal models, lowering levels of IgE, IL-4, and IFN- γ . Additionally, sinomenine decreases production of COX-2 and other pro-inflammatory cytokines in vitro. In animal models of cerebral ischemia, sinomenine inhibits acid-sensing ion currents and L-type voltage-gated Ca²⁺ currents, improving recovery and decreasing infarction volume. This compound also inhibits tumor growth and cell proliferation in models of breast cancer.



Bulk quantities available upon request

Product ID	Size
S3353	1 g
S3353	10 g
S3353	25 g
S3353	50 g

References Li X, Wang K, Ren Y, et al. MAPK signaling mediates sinomenine hydrochloride-induced human breast cancer cell death via both reactive oxygen species-dependent and -independent pathways: an in vitro and in vivo study. *Cell Death Dis.* 2014 Jul 31;5:e1356. PMID: 25077542.

Zhang MY, Li P, Wang DQ, et al. Analgesic effect of sinomenine on SSNI model rats and monoamine neurotransmitters in striatal extracellular fluid. *Zhongguo Zhong Yao Za Zhi.* 2013 Feb;38(4):597-604. PMID: 23713290.

Chen Z, Tao Z, Zhang N, et al. The role of sinomenine in treatment of allergic rhinitis mice model and its mechanism. *Lin Chung Er Bi Yan Hou Tou Jing Wai Ke Za Zhi.* 2013 Jan;27(2):81-4. PMID: 23650707.

Oh YC, Kang OH, Kim SB, et al. Anti-inflammatory effect of sinomenine by inhibition of pro-inflammatory mediators in PMA plus A23187-stimulated HMC-1 Cells. *Eur Rev Med Pharmacol Sci.* 2012 Sep;16(9):1184-91. PMID: 23047501.

Wu WN, Wu PF, Chen XL, et al. Sinomenine protects against ischaemic brain injury: involvement of co-inhibition of acid-sensing ion channel 1a and L-type calcium channels. *Br J Pharmacol.* 2011 Nov;164(5):1445-59. PMID: 21585344.

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