



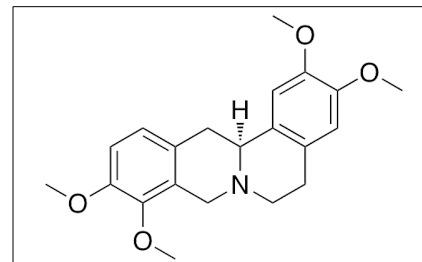
LKT Laboratories, Inc.

L-Tetrahydropalmatine

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Product Information

Product ID T1676
CAS No. 483-14-7
Chemical Name 5,8,13,13a-Tetrahydro-2,3,9,10-tetramethoxy-6H-dibenzo[a,g]quinolizine
Synonym (-)-Tetrahydropalmatine, Gindarine, Rotundine, Caseanine, 6H-Dibenzo[a,g]quinolizine, 5,8,13,13a-tetrahydro-2,3,9,10-tetramethoxy-, (13aS)-, 13aa-Berbine, 2,3,9,10-tetramethoxy- (8Cl), 6H-Dibenzo[a,g]quinolizine, 5,8,13,13a-tetrahydro-2,3,9,10-tetramethoxy-, (S)-, Cyclanoline, O,O-dimethyl-N-
Formula $C_{21}H_{25}NO_4$
Formula Wt. 355.43
Melting Point 147 °C
Purity ≥98%
Solubility DMSO



Bulk quantities available upon request

Product ID	Size
T1676	100 mg
T1676	500 mg

Store Temp Ambient
Ship Temp Ambient

Description L-Tetrahydropalmatine is an alkaloid found in *Corydalis* and *Stephania* that exhibits analgesic, antidepressant, anxiolytic, cardioprotective, and neuromodulatory activities. L-Tetrahydropalmatine is the more active isomer of tetrahydropalmatine; it inhibits D1/2 receptors and suppresses reward and reinforcement signaling in animal models of substance abuse. L-Tetrahydropalmatine also increases time spent in open arms and decreases grooming behavior and immobility in various assays of anxiety and depression in vivo. Additionally, L-tetrahydropalmatine inhibits oxaliplatin-induced neuropathic pain in animal models. In animal models of myocardial ischemia/reperfusion, this compound decreases levels of NO and TNF- α , suppresses myeloperoxidase activity, and increases HIF-1 α and VEGF levels.

References Lee B, Sur B, Yeom M, et al. L-tetrahydropalmatine ameliorates development of anxiety and depression-related symptoms induced by single prolonged stress in rats. *Biomol Ther (Seoul)*. 2014 May;22(3):213-22. PMID: 25009702.

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Su HL, Zhu J, Chen YJ, et al. Roles of levo-tetrahydropalmatine in modulating methamphetamine reward behavior. *Physiol Behav*. 2013 Jun 13;118:195-200. PMID: 23711566.

Han Y, Zhang W, Tang Y, et al. L-Tetrahydropalmatine, an active component of *Corydalis yanhusuo* W.T. Wang, protects against myocardial ischaemia-reperfusion injury in rats. *PLoS One*. 2012;7(6):e38627. PMID: 22715398.

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