LKT Laboratories, Inc.

Tetrahydrocoptisine

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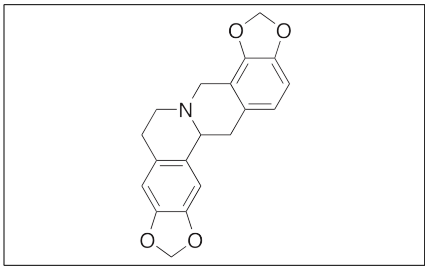
Product Information

Product ID T1979
CAS No. 4312-32-7
Chemical Name 5,7,17,19-tetraoxa-13-azahexacyclo [11.11.0.02,10.04,8.015,23.016,20]tetracosa-2,4(8),9,15(23),16 (20),21-hexaene
Synonym Stylopine



Formula $C_{19}H_{17}NO_4$
Formula Wt. 323.34
Melting Point
Purity ≥98%
Solubility

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
T1979	1 mg	$52.90
T1979	5 mg	$151.80

Store Temp 4°C
Ship Temp Ambient

Description Tetrahydrocoptisine is an alkaloid compound originally found in *Corydalis* tubers that exhibits anti-inflammatory and anti-parasitic activities. In vivo, tetrahydrocoptisine inhibits carrageenan- and xylene-induced edema and prevents LPS-induced increases in TNF-α, IL-6, and NO, as well as activation of p38, ERK, and NF-κB. In other animal models, tetrahydrocoptisine prevents production of NO, release of cytochrome c, accumulation of neutrophils, and expression of NF-κB, suppressing the formation of ethanol-induced gastric ulcers. Additionally, this compound inhibits acetylcholinesterase (AChE) and displays nematocidal activity against *Strongyloides*.

References

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Li W, Huang H, Niu X, et al. Protective effect of tetrahydrocoptisine against ethanol-induced gastric ulcer in mice. Toxicol Appl Pharmacol. 2013 Oct 1;272(1):21-9. PMID: 23769714.

Wangchuk P, Keller PA, Pyne SG, et al. Phytochemical and biological activity studies of the Bhutanese medicinal plant Corydalis crispa. Nat Prod Commun. 2012 May;7(5):575-80. PMID: 22799079.

Satou T, Koga M, Matsuhashi R, et al. Assay of nematocidal activity of isoquinoline alkaloids using third-stage larvae of Strongyloides ratti and S. venezuelensis. Vet Parasitol. 2002 Mar 1;104(2):131-8. PMID: 11809332.