



LKT Laboratories, Inc.

Dehydrocorydaline

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Product Information

Product ID D1631

CAS No. 30045-16-0

Chemical Name

Synonym

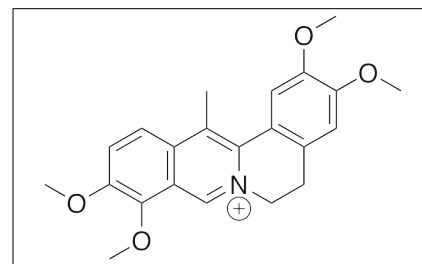
Formula $C_{22}H_{24}NO_4$

Formula Wt. 366.43

Melting Point

Purity $\geq 95\%$

Solubility 10 mM in DMSO



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
D1631	1 mg	\$127.70
D1631	5 mg	\$501.30

Store Temp 4°C

Ship Temp Ambient

Description Dehydrocorydaline is an alkaloid compound originally found in *Corydalis* tubers that exhibits anticancer, anti-inflammatory, and anti-allergic activities. In breast cancer cells, dehydrocorydaline increases activation of caspases 7 and 8, cleavage of poly (ADP)-ribose polymerase (PARP), and the Bax/Bcl-2 ratio, inducing DNA fragmentation and inhibiting proliferation. In macrophages, this compound inhibits LPS-induced increases in IL-6 and IL-1B as well as alterations in the mitochondrial membrane potential. Dehydrocorydaline inhibits passive cutaneous anaphylaxis (type I hypersensitivity), contact dermatitis (type IV hypersensitivity), and mast cell degranulation in animal models of allergies. Additionally, dehydrocorydaline also inhibits acetylcholinesterase (AChE).

References Xu Z, Chen X, Fu S, et al. Dehydrocorydaline inhibits breast cancer cells proliferation by inducing apoptosis in MCF-7 cells. *Am J Chin Med.* 2012;40(1):177-85. Erratum in: *Am J Chin Med.* 2012;40(6):1323. PMID: 22298457.

Ishiguro K, Ando T, Maeda O, et al. Dehydrocorydaline inhibits elevated mitochondrial membrane potential in lipopolysaccharide-stimulated macrophages. *Int Immunopharmacol.* 2011 Sep;11(9):1362-7. PMID: 21575743.

Xiao HT, Peng J, Liang Y, et al. Acetylcholinesterase inhibitors from *Corydalis yanhusuo*. *Nat Prod Res.* 2011 Sep;25(15):1418-22. PMID: 20234973.

Matsuda H, Tokuoka K, Wu J, et al. Inhibitory effects of dehydrocorydaline isolated from *Corydalis* Tuber against type I-IV allergic models. *Biol Pharm Bull.* 1997 Apr;20(4):431-4. PMID: 9145224.

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