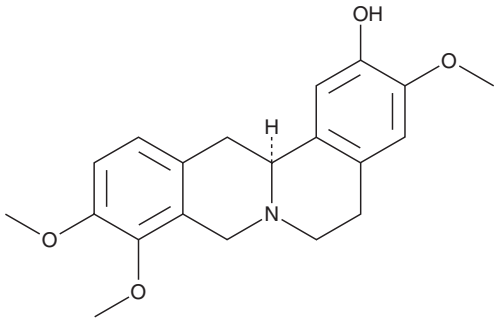
PRODUCT INFORMATION

(–)-Isocorypalmine

Item No. 29886

CAS Registry No.:	483-34-1
Formal Name:	(13aS)-5,8,13,13a-tetrahydro-3,9,10-trimethoxy-6H-dibenzo[a,g]quinolizin-2-ol
Synonyms:	L-Isocorypalmine, Isocorypalmine
MF:	$C_{20}H_{23}NO_4$
FW:	341.4
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Plant/*Mahoniae Caulis*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

(–)-Isocorypalmine is supplied as a solid. A stock solution may be made by dissolving the (–)-isocorypalmine in the solvent of choice, which should be purged with an inert gas. (–)-Isocorypalmine is soluble in methanol.

Description

(–)-Isocorypalmine is an isoquinoline alkaloid and a metabolite of L-tetrahydropalmitine (L-THP; Item No. 20535) that has been found in *Corydalis* and has diverse biological activities.[1-5] It binds to human dopamine D_{1-5} receptors with K_i values of 6.2, 41.8, 37.3, 77.4, and 9.5 nM, respectively.[2] (–)-Isocorypalmine inhibits Epstein-Barr virus-early antigen (EBV-EA) activation induced by phorbol 12-myristate 13-acetate (TPA; Item No. 10008014) in Raji cells (IC_{50} = 300 mol ratio/32 pmol TPA), which is predictive for anti-tumor activity.[3] It is cytotoxic to A549, SKOV3, SK-MEL-2, and HCT15 cancer cells (IC_{50}s = 67.32, 47.37, 47.66, and 67.32 µM, respectively).[4] (–)-Isocorypalmine is active against clinical strains of *C. albicans*, *C. glabratas*, *C. krusei*, *C. parapsilosis*, and *C. neoformans* (MICs = 40-320 µg/ml).[5]

References

1. Xiao, W., Zhuang, X., Shen, G., *et al.* Simultaneous quantification of L-tetrahydropalmatine and its urine metabolites by ultra high performance liquid chromatography with tandem mass spectrometry. *J. Sep. Sci.* **37(6)**, 696-703 (2014).
2. Lee, D.Y.W., Liu, J., Zhang, S., *et al.* Asymmetric total synthesis of tetrahydroprotoberberine derivatives andevaluation of their binding affinities at dopamine receptors. *Bioorg. Med. Chem. Lett.* **27(6)**, 1437-1440 (2017).
3. Ito, C., Itoigawa, M., Tokuda, H., *et al.* Chemopreventive activity of isoquinoline alkaloids from *Corydalis* plants. *Planta Med.* **67(5)**, 473-475 (2001).
4. Kim, K.H., Piao, C., J., Choi, S.U., *et al.* New cytotoxic tetrahydroprotoberberine-aporphine dimeric and aporphine alkaloids from *Corydalis turtschaninovii*. *Planta Med.* **76(15)**, 1732-1738 (2010).
5. Rao, G.-X., Zhang, S., Wang, H.-M., *et al.* Antifungal alkaloids from the fresh rattan stem of *Fibraurea recisa Pierre*. *J. Ethnopharmacol.* **123(1)**, 1-5 (2009).

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