

Product Data Sheet

Product Name: D-Tetrahydropalmatine

Cat. No.: GC38228

Chemical Properties

Cas. No. 3520-14-7

SMILES COC1=CC=C2C(CN3CCC4=CC(OC)=C(OC)C=C4[C@@]3([H])C2)=C1OC

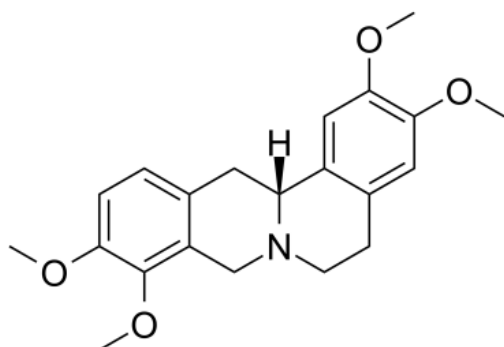
Formula $C_{21}H_{25}NO_4$ M.Wt 355.43

Solubility Soluble in DMSO Storage Store at 2-8°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

D-Tetrahydropalmatine is an isoquinoline alkaloid, mainly in the genus *Corydalis*[1]. D-Tetrahydropalmatine is a Dopamine (DA) receptor antagonist with preferential affinity toward the D1 receptors[2]. D-Tetrahydropalmatine is a potent organic cation transporter 1 (OCT1) inhibitor[3].

[1]. Ma ZJ, et al. [Effects of different types and standard of processing vinegar on inherent constituents in rhizoma of *Corydalis yanhusuo*]. *Zhongguo Zhong Yao Za Zhi*. 2006 Mar;31(6):465-7.

[2]. Xu SX, et al. Effects of tetrahydroprotoberberines on dopamine receptor subtypes in brain.

Caution: Product has not been fully validated for medical applications. For research use only.

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Zhongguo Yao Li Xue Bao. 1989 Mar;10(2):104-10. [3]. Tu M, et al. Organic cation transporter 1 mediates the uptake of monocrotaline and plays an important role in its hepatotoxicity. Toxicology. 2013 Sep 15;311(3):225-30.

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