

Corydine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Corydine

Catalog No.: CFN90527

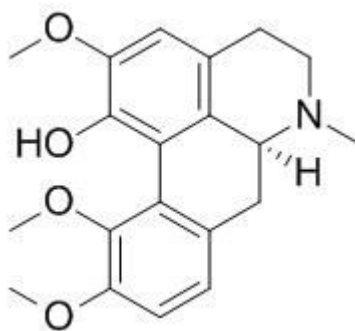
Cas No.: 476-69-7

Purity: > 98%

M.F: C₂₀H₂₃NO₄

M.W: 341.40

Physical Description: Cryst



Synonyms: 4H-Dibenzo(de,g)quinolin-1-ol, 5,6,6a,7-tetrahydro-2,10,11-trimethoxy-6-methyl-, (S)-; Glaucentrine; (s)-(+)-Corydine.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The tubers of *Corydalis tuberosa* DC.

[Biological Activity or Inhibitors]

Corydine has inhibitory activity against several mouse tumor cell lines, leukemia P388 and L1210, melanoma B16, bladder cancer MBC2, and colon cancer Colon 26 in culture, it also inhibits the mitogen-induced lymphocyte proliferation as well as the growth of IL-2 dependent CTLL2 line in a dose-dependent way.^[1]

Corydine and atherospermidine show DNA damaging activity.^[2]

Corydine, parfumine and 8-methyl-2,3,10,11-tetraethoxyberbine are potent and selective inhibitors for CYP3A4.^[3]

Corydine inhibits butyrylcholinesterase in a dose-dependent manner with an IC₅₀ value of 52±4 microM.^[4]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[5]

Mobile phase: Acetonitrile-0.2%Phosphoric acid in water,gradient elution;

Flow rate:1.0 ml/min;

Column temperature: 30°C;

The wave length of determination:270 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Kondo Y, Imai Y, Hojo H, *et al. J. Pharmacobiodyn.*,1990 Jul;13(7):426-31.

[2] Gören AC, Zhou BN, Kingston DG.*Planta Med.*,2003 Sep;69(9):867-8.

[3] Salminen KA, Meyer A, Jerabkova L, *et al. Phytomedicine*, 2011 Apr 15;18(6):533-8.

[4] Adersen A, Kjølbye A, Dall O, *et al. J. Ethnopharmacol.*,2007 Aug 15;113(1):179-82.

[5] Chen Y, Li M, Liu J, Yan Q, *et al. J. Sep. Sci.*,2015 Jan;38(1):9-17.

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