

Product Data Sheet

Product Name: Corydine

Cat. No.: GC35731

Chemical Properties

Cas. No. 476-69-7

SMILES OC1=C(OC)C=C2C3=C1C(C(OC)=C(OC)C=C4)=C4C[C@]3([H])N(CC2)CFormula C₂₀H₂₃NO₄

M.Wt

341.4

Solubility Soluble in DMSO

Storage

Store at -20°C

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

Corydine is an aporphine alkaloid that has been found in *Corydalis* and has diverse biological activities.^{1,2,3} It inhibits the proliferation of murine L1210 lymphocytic leukemia, B16/F10 melanoma, and P388 leukemia cells when used at concentrations ranging from 10 to 100 µg/ml.¹ Corydine binds to µ-opioid receptors ($K_i = 2.82 \mu\text{M}$) and induces [³⁵S]GTPγS binding in CHO cells expressing human µ-opioid receptors ($\text{EC}_{50} = 0.51 \mu\text{M}$).² It also is active against *L. donovani* promastigotes ($\text{IC}_{50} = 26.7 \mu\text{M}$).³

1.Kondo, Y., Imai, Y., Hojo, H., et al. Suppression of tumor cell growth and mitogen response by aporphine alkaloids, dicentrine, glaucine, corydine, and apomorphine]. Pharmacobiodyn.13(7)426-431(1990) 2.Kaserer, T., Steinacher, T., Kainhofer, R., et al. Identification and characterization of plant-derived alkaloids, corydine and corydaline, as novel mu opioid receptor agonists Sci. Rep.10(1)13804(2020) 3.del Rayo Camacho, M., Kirby, G.C., Warhurst, D.C., et al. Oxoaporphine alkaloids and quinones from *Stephania dinklagei* and evaluation of their antiprotozoal activities Planta Med.66(5)478-480(2000)

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

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