

Product Data Sheet

Product Name: Mitraphylline

Cat. No.: GC40056

Chemical Properties

Cas. No. 509-80-8

SMILES O=C1NC2=C(C=CC=C2)[C@]31CCN4C[C@]5([H])[C@H](C)OC=C(C(OC)=O)[C@@]5([H])C[C@]43[H]

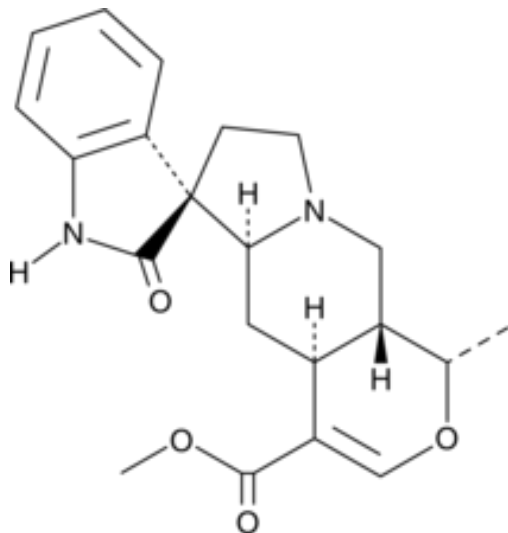
Formula $C_{21}H_{24}N_2O_4$ M.Wt 368.4

Solubility DMF: 5 mg/ml, DMSO: 5 mg/ml, DMSO:PBS (pH 7.2) (1:2): 0.33 mg/ml, Ethanol: slightly soluble
Storage 4°C, away from moisture and 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

Mitraphylline is the major pentacyclic oxindolic alkaloid found in *U. tomentosa* and has anti-inflammatory and antiproliferative properties. It reduces production of nitric oxide (NO), IL-8, IL-6, and TNF- α as well as expression of inducible nitric oxide synthase (iNOS) in LPS-activated human

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

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neutrophils. Mitraphylline inhibits the growth of SKN-BE(2) neuroblastoma, GAMG glioblastoma, MHH-ES-1 Ewing's sarcoma, and MT-3 breast cancer cells (IC₅₀s = 12.3, 20, 17.15, and 11.18 μ M, respectively). In vivo, mitraphylline (30 mg/kg per day) inhibits LPS-induced release of IL-1 α , IL-1 β , IL-17, and TNF- α in mouse serum.

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