

Product Data Sheet

Product Name: Isomitraphylline

Cat. No.: GC91485

Chemical Properties

Cas. No. 4963-01-3

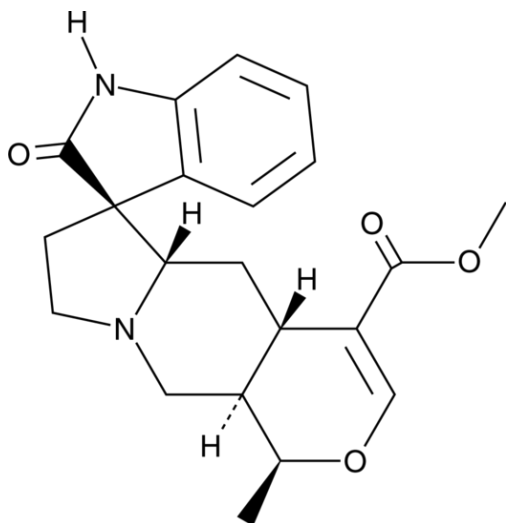
Formula $C_{21}H_{24}N_2O_4$ M.Wt 368.4

Solubility Acetonitrile: Slightly soluble: 0.1-1 mg/ml, Chloroform: Sparingly soluble: 1-10 mg/ml
Storage -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

Isomitraphylline is an alkaloid that has been found in *U. tomentosa* and has anticancer activity.^{[1],[2]}

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

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It is an antagonist of ecdysteroid receptors in a reporter assay using *Drosophila* BII cells ($EC_{50} = 160 \mu\text{M}$).^[1] Isomitraphylline (50 or 100 μM) reduces the proliferation of, and induces apoptosis in, CCRF CEM C7H2 lymphoblastic leukemia cells.^[2]

References:

[1].Dinan, L., Bourne, P.C., Meng, Y., et al.Assessment of natural products in the *Drosophila melanogaster* BII cell bioassay for ecdysteroid agonist and antagonist activitiesCell. Mol. Life Sci.58(2)321-342(2001).

[2].Bacher, N., Tienfenthaler, M., Sturm, S., et al.Oxindole alkaloids from *Uncaria tomentosa* induce apoptosis in proliferating, G0/G1-arrested and bcl-2-expressing acute lymphoblastic leukaemia cellsBr. J. Haematol.132(5)615-622(2006).

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