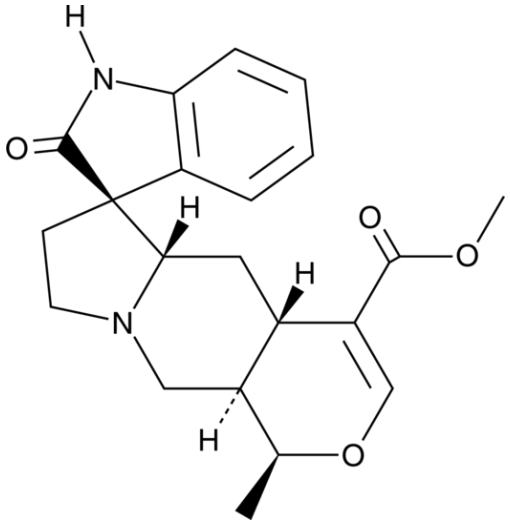
Product Data Sheet

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]

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It is an antagonist of ecdysteroid receptors in a reporter assay using *Drosophila* B_{II} cells (EC_{50} = 160 µM).[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).

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