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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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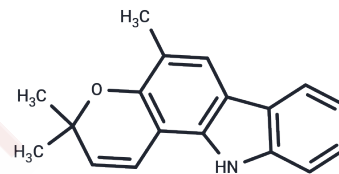
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Girinimbine

Chemical Properties

CAS No. :	23095-44-5
Formula:	C ₁₈ H ₁₇ NO
Molecular Weight:	263.33
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Girinimbine (Girinimbine) is a carbazole alkaloid isolated from the plants <i>M. koenigii</i> , <i>M. koenigii</i> , and <i>Murraya koenigii</i> . Girinimbine exhibits a wide range of biological effects, including apoptosis, antitrypanosomal, antiplatelet, antimicrobial, anti-inflammatory, antioxidant, and antitumor activities.
In vitro	Girinimbine (1-400 μ M; 24-72 h; HepG2 cells) demonstrates IC ₅₀ values of 61 μ M, 56 μ M, and 40 μ M, reducing HepG2 cell viability at 24, 48, and 72 hours, respectively.[1] Additionally, Girinimbine (10-100 μ M; 24-48 h; HepG2 cells) increases LDH leakage in a concentration- and time-dependent manner.[1] With Girinimbine (56 μ M; 24-48 h; HepG2 cells) treatment, DNA fragmentation and elevated caspase-3 levels are observed.[1] Girinimbine (56 μ M; 12-48 h) also exhibits a time-dependent accumulation of the Sub-G0/G1 peak and induces G0/G1-phase arrest.[1] Moreover, Girinimbine shows potent antitrypanosomal activity, with an IC ₅₀ value of 10.16 μ g/mL.[3]
In vivo	Girinimbine (10-100 mg/kg; orally gavage; once; Male ICR mice) pretreatment effectively reduces total leukocyte migration and lowers pro-inflammatory cytokine (IL-1 β , TNF- α) levels in the peritoneal fluid, while Girinimbine (20 μ g/mL; 24 h; zebrafish embryos) shows a significant distribution of apoptotic cells in embryos.[2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7975 mL	18.9876 mL	37.9752 mL
5 mM	0.7595 mL	3.7975 mL	7.595 mL
10 mM	0.3798 mL	1.8988 mL	3.7975 mL
50 mM	0.076 mL	0.3798 mL	0.7595 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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