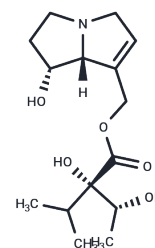


(+)-Intermedine

Chemical Properties

CAS No. :	10285-06-0
Formula:	C ₁₅ H ₂₅ NO ₅
Molecular Weight:	299.36
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	(+)-Intermedine, a pyrrolizidine alkaloid (PA), exhibits significant cytotoxic activity against neural progenitor cells (NPCs).
Targets(IC50)	Others
In vitro	'(+)-Intermedine, at concentrations ranging from 1.1 to 30 μ M over 24 hours, demonstrates considerable cytotoxic effects at 30 μ M, significantly diminishing cell viability in a dose-dependent fashion in neural progenitor cells (NPCs)[1]. It does not impair differentiation[1]. In a Cell Cytotoxicity Assay on NPCs, with concentrations set at 1.1, 3.3, 10, and 30 μ M for an incubation period of 24 hours, the results confirmed significant cytotoxicity and reduced viability at the highest concentration.'

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3405 mL	16.7023 mL	33.4046 mL
5 mM	0.6681 mL	3.3405 mL	6.6809 mL
10 mM	0.334 mL	1.6702 mL	3.3405 mL
50 mM	0.0668 mL	0.334 mL	0.6681 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yan Zhang, et al. Analysis of pyrrolizidine alkaloids in *Eupatorium fortunei* Turcz. and their in vitro neurotoxicity. *Food Chem Toxicol.* 2021 May;151:112151.

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