

3-Hydroxypyridine

Chemical Properties

CAS No. : 109-00-2

Formula: C₅H₅NO

Molecular Weight: 95.1

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	3-Hydroxypyridine exhibits inhibitory activity against DNA topoisomerase 2-beta (Topo II β) and HIV-1 replication in Sup-T1 cells, making it useful for studying the HIV-1 virus.
Targets(IC50)	Apoptosis,HIV Protease,Topoisomerase,Photosensitizer
In vitro	Treatment of HaCaT keratinocytes with 3-Hydroxypyridine (100 μ M, 3 days) and subsequent exposure to solar-simulated light inhibited proliferation and induced cell cycle arrest and apoptosis. [1]

Solubility Information

Solubility	DMSO: 100 mg/mL (1051.52 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (42.06 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	10.5152 mL	52.5762 mL	105.1525 mL
5 mM	2.103 mL	10.5152 mL	21.0305 mL
10 mM	1.0515 mL	5.2576 mL	10.5152 mL
50 mM	0.2103 mL	1.0515 mL	2.103 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

Atsushi Endo, et al. Bamboo grass extract and use of the same extract. JP2006298766A

L D Lukyanova, et al. Energotropic effect of succinate-containing derivatives of 3-hydroxypyridine. Bull Exp Biol Med. 2009 Oct;148(4):587-91.

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