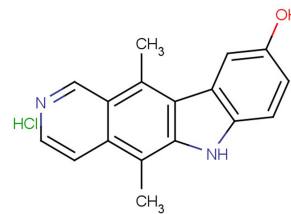


9-Hydroxyellipticine hydrochloride

Chemical Properties

CAS No.:	52238-35-4
Formula:	C ₁₇ H ₁₅ ClN ₂ O
Molecular Weight:	298.77
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	9-Hydroxyellipticine hydrochloride is a inhibitor of Topo II and RyR. It exhibits antitumor, antioxidant and catecholamine-releasing activities. 9-Hydroxyellipticine hydrochloride inhibits Hela S-3 and 293T cells (IC ₅₀ s: 1.6 μ M and 1.2 μ M).
Targets(IC ₅₀)	Others: None
In vitro	9-Hydroxyellipticine causes selective inhibition of p53 protein phosphorylation in Lewis lung carcinoma and SW480 (human colon cancer cell line) in a concentration-dependent manner from 0.1 to 100 μ M [4].
In vivo	9-Hydroxyellipticine (5 or 10 mg/kg, ip) results in chromosome clumping and sister chromatid exchange in murine bone marrow cells [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.347 mL	16.735 mL	33.471 mL
5 mM	0.669 mL	3.347 mL	6.694 mL
10 mM	0.335 mL	1.674 mL	3.347 mL
50 mM	0.067 mL	0.335 mL	0.669 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Renault G, et al. In vivo exposure to four ellipticine derivatives with topoisomerase inhibitory activity results in chromosome clumping and sister chromatid exchange in murine bone marrow cells. *Toxicol Appl Pharmacol.* 1987 Jun 30;89(2):281-6.
2. Saeki K, et al. Cardioprotective effects of 9-hydroxyellipticine on ischemia and reperfusion in isolated rat heart. *Jpn J Pharmacol.* 2002 May;89(1):21-8.
3. Naoya Sato, et al. Synthesis and in vitro Antitumor Activity of 9-Hydroxyellipticine Derivatives with Glucose Conjugation via Triazolylmethyl Succinate Linker. *Heterocycle*, Vol. 92, NO 4, 2016.
4. Ohashi M, et al. Inhibition of p53 protein phosphorylation by 9-hydroxyellipticine: a possible anticancer mechanism. *Jpn J Cancer Res.* 1995 Sep;86(9):819-27.

Inhibitors · Natural Compounds · Compound Libraries

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