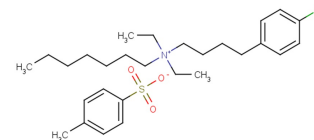


Clofilium tosylate

Chemical Properties

CAS No.:	92953-10-1
Formula:	C ₂₈ H ₄₄ ClNO ₃ S
Molecular Weight:	510.17
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Clofilium tosylate is a potassium channel blocker. It induces apoptosis of human promyelocytic leukemia (HL-60) cells via Bcl-2-insensitive activation of caspase-3.
Targets(IC ₅₀)	Potassium channel: None
In vitro	Clofilium (10 μ M, 12 hours) induces the proteolytic cleavage of inactive procaspase-3, p34 into its active form, p17, and subsequent cleavage of its substrate PARP. However, there is no significant change in the expression of Bcl-2 and Bax proteins. HL-60 cells treated with Clofilium (0-20 μ M; 24, 48, and 72 hours) causes suppression of viability and proliferation in both time and concentration-dependent manners. Cell viability decreases significantly in HL-60 cells treated with Clofilium (2.5 μ M to 10 μ M).

Solubility Information

Solubility	DMSO: 125 mg/mL (245.02 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.96 mL	9.801 mL	19.601 mL
5 mM	0.392 mL	1.96 mL	3.92 mL
10 mM	0.196 mL	0.98 mL	1.96 mL
50 mM	0.039 mL	0.196 mL	0.392 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. Choi BY, et al. Clofilium, a potassium channel blocker, induces apoptosis of human promyelocytic leukemia (HL-60) cells via Bcl-2-insensitive activation of caspase-3. Cancer Lett. 1999 Dec 1;147(1-2):85-93.

Inhibitors · Natural Compounds · Compound Libraries

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