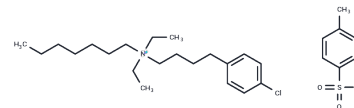


Clofilium tosylate

Chemical Properties

CAS No. :	92953-10-1
Formula:	C ₂₈ H ₄₄ ClNO ₃ S
Molecular Weight:	510.17
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Clofilium tosylate is a potassium channel blocker, induces apoptosis on human promyelocytic leukemia (HL-60) cells.
Targets(IC50)	Potassium Channel
In vitro	Treatment with 0-20 μ M Clofilium inhibits viability and proliferation in a time- and concentration-dependent manner in HL-60 cells. Cell viability is significantly reduced in HL-60 cells treated with 2.5 μ M to 10 μ M Clofilium After 12 hours. Treatment with 10 μ M Clofilium induces the proteolytic cleavage of inactive procaspase-3, p34 into its active form, p17 and subsequent cleavage of its substrate PARP.. However, the expression of Bcl-2 and Bax proteins does not change significantly[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (196.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9601 mL	9.8007 mL	19.6013 mL
5 mM	0.392 mL	1.9601 mL	3.9203 mL
10 mM	0.196 mL	0.9801 mL	1.9601 mL
50 mM	0.0392 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. Please use it as soon as possible.

Reference

Tyshkovskiy A, Ma S, Shindyapina A V, et al. Distinct longevity mechanisms across and within species and their association with aging. Cell. 2023

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481