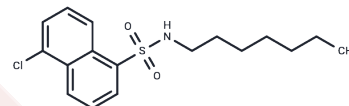


SC-10

## Chemical Properties

CAS No. : 102649-79-6  
 Formula: C<sub>17</sub>H<sub>22</sub>ClNO<sub>2</sub>S  
 Molecular Weight: 339.88  
 Storage: Store at low temperature  
 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	SC-10 is a direct activator of PKC with potential antiproliferative activity, useful in leukemia research.
Targets(IC50)	PKC
In vitro	SC-10 (10.001-100µM) treatment of U937 and HL-60 cells failed to induce changes in PKC content in membrane and cytoplasmic fractions, respectively; SC-10 showed a protective effect in HL-60 cells treated with Ara-C; SC-10 showed a modest biological effect on leukemic blasts and could not enhance the apoptotic response of these cells to cytotoxic drugs.[1]

## Solubility Information

Solubility	DMSO: 2 mg/mL (5.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9422 mL	14.7111 mL	29.4221 mL
5 mM	0.5884 mL	2.9422 mL	5.8844 mL
10 mM	0.2942 mL	1.4711 mL	2.9422 mL
50 mM	0.0588 mL	0.2942 mL	0.5884 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

Meinhardt G, et al. Effect of novel modulators of protein kinase C activity upon chemotherapy-induced differentiation and apoptosis in myeloid leukemic cells. *Anticancer Drugs*. 2002 Aug;13(7):725-33.

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