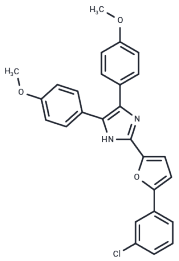
Data Sheet (Cat.No.T16287)

TargetMol

Neurodazine

Chemical Properties



CAS No. : 937807-66-4

Formula: C27H21ClN2O3

Molecular Weight: 456.92

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Neurodazine is a neural inducer that promotes the differentiation of pluripotent cells into neuronal cells.Neurodazine promotes differentiation by activating Wnt and Shh signaling.
Targets(IC50)	Wnt/beta-catenin
In vitro	Treatment with Neurodazine (5 μM; 1-10 d) induces the expression of neuron-specific markers in P19 cells[2]. Neurodazine selectively suppresses astrocyte differentiation of P19 cells[2].

Solubility Information

Solubility	DMSO: 80 mg/mL (175.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1886 mL	10.9428 mL	21.8857 mL
5 mM	0.4377 mL	2.1886 mL	4.3771 mL
10 mM	0.2189 mL	1.0943 mL	2.1886 mL
50 mM	0.0438 mL	0.2189 mL	0.4377 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

Halder D, et al. Synthetic small molecules that induce neuronal differentiation in neuroblastoma and fibroblast cells. Mol Biosyst. 2015 Oct;11(10):2727-37.

Kim GH, et al. Imidazole-based small molecules that promote neurogenesis in pluripotent cells. Angew Chem Int Ed Engl. 2014 Aug 25;53(35):9271-4.

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