Neurodazine

Cat. No.: HY-108439

CAS No.: 937807-66-4

Molecular Formula: $C_{27}H_{21}ClN_2O_3$

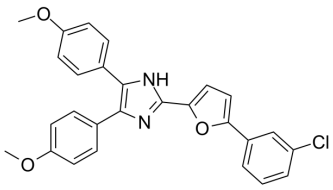
Molecular Weight: 456.92

Target: Wnt; Hedgehog

Pathway: Stem Cell/Wnt

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (218.86 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (5.47 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (5.47 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Neurodazine is a neurogenic inducer, serve as a promoter of neurogenesisin pluripotent cells. Neurodazine promotes neurogenesis by activating Wnt and Shh signaling pathways.[1][2].

In Vitro

Neurodazine (5 μM; 1-10 d) treatment induces the expression of neuron-specific markers in P19 cells[1].
Neurodazine selectively suppresses astrocyte differentiation of P19 cells[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	P19 cells

Concentration:	5 μM
Incubation Time:	1-10 days
Result:	Induced the expression of neuron-specific markers.

REFERENCES

[1]. 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.

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

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