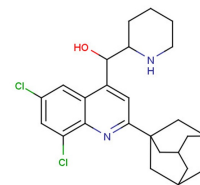


NSC305787

Chemical Properties

CAS No.:	785718-37-8
Formula:	C ₂₅ H ₃₀ Cl ₂ N ₂ O
Molecular Weight:	445.42
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	NSC305787 is an ezrin inhibitor(Kd of 5.85 μ M), with antitumor activity.
Targets(IC ₅₀)	ezrin: 8.3 μ M
In vivo	NSC305787 mimicked the ezrin morpholino phenotype, and NSC668394 caused a unique developmental defect consistent with reduced cell motility in zebrafish. Following tail vein injection of OS cells into mice, both molecules inhibited lung metastasis of ezrin-sensitive cells, but not ezrin-resistant cells. The small molecule inhibitors NSC305787 and NSC668394 demonstrate a novel targeted therapy that directly inhibits ezrin protein as an approach to prevent tumor metastasis[1].

Solubility Information

Solubility	DMSO: 6 mg/mL (13.47 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.245 mL	11.225 mL	22.451 mL
5 mM	0.449 mL	2.245 mL	4.49 mL
10 mM	0.225 mL	1.123 mL	2.245 mL
50 mM	0.045 mL	0.225 mL	0.449 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. Bulut G, et al. Small molecule inhibitors of ezrin inhibit the invasive phenotype of osteosarcoma cells. *Oncogene*. 2012 Jan 19;31(3):269-81.
2. Çelik H, et al. Ezrin Inhibition Up-regulates Stress Response Gene Expression. *J Biol Chem*. 2016 Jun 17;291(25):13257-70.

Inhibitors · Natural Compounds · Compound Libraries

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