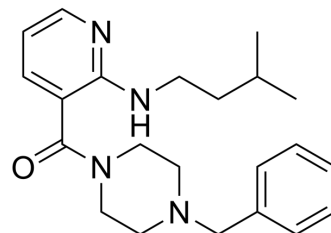


NSI-189

Cat. No.:	HY-13999
CAS No.:	1270138-40-3
Molecular Formula:	C ₂₂ H ₃₀ N ₄ O
Molecular Weight:	366.5
Target:	Others; Others
Pathway:	Others
Storage:	<div>Powder</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> <div>In solvent</div> <div>-80°C 6 months</div> <div>-20°C 1 month</div>



SOLVENT & SOLUBILITY

In Vitro	DMSO : 110 mg/mL (300.14 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		2.7285 mL	13.6426 mL	27.2851 mL
		5 mM		0.5457 mL	2.7285 mL	5.4570 mL
		10 mM		0.2729 mL	1.3643 mL	2.7285 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: 2.75 mg/mL (7.50 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.75 mg/mL (7.50 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.75 mg/mL (7.50 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	NSI-189, benzylpiperazine-aminopyridine, is a multi-domain neurogenic compound with brain-therapeutic properties. NSI-189 can stimulate neurogenesis of human hippocampus-derived neural stem cells in vitro and stimulates neurogenesis in murine hippocampus in vivo. NSI-189 can be used for the research of psychiatric disorders ^[1] .
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REFERENCES

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- [1]. McIntyre RS, et al. The neurogenic compound, NSI-189 phosphate: a novel multi-domain treatment capable of pro-cognitive and antidepressant effects. *Expert Opin Investig Drugs*. 2017 Jun;26(6):767-770.
- [2]. <http://gizmodo.com/5874433/the-pill-that-could-cure-depression-by-growing-your-brain>
- [3]. Compositions to effect neuronal growth US 8030492 B2
- [4]. Why NeuralStem Could Provide A 10x Return
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Caution: Product has not been fully validated for medical applications. For research use only.

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