Product Data Sheet

Product Name: NSI-189
Cat. No.: GC17662

Chemical Properties

Cas. No.	1270138-40-3		
Chemical Name	(4-benzylpiperazin-1-yl)-[2-(3-methylbutylamino)pyridin-3-yl]methanone		
SMILES	CC(C)CCNC1=C(C=CC=N1)C(=O)N2CCN(CC2)CC3=CC=CC=C3		
Formula	$C_{22}H_{30}N_4O$	M.Wt	366.5
Solubility	DMSO : 110 mg/mL (300.14 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	NSI-189		

Background

NSI-189 is a nootropic and neurogenic research chemical derived from nicotinamide and pyrazine.IC50 value:Target: in vitro: NSI-189 has been shown to stimulate neurogenesis of human hippocampus-derived neural stem cells in vitro and in vivo. The hippocampus is responsible for the consolidation of information from short-term memory to long-term memory, along with spatial navigation [1] [2].in vivo: NSI-189 has been shown to increase the hippocampal volume of healthy adult mice by 20% [3].

References:
[1]. http://gizmodo.com/5874433/the-pill-that-could-cure-depression-by-growing-your-brain
[2]. Compositions to effect neuronal growth US 8030492 B2
[3]. Why Neuralstem Could Provide A 10x Return

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