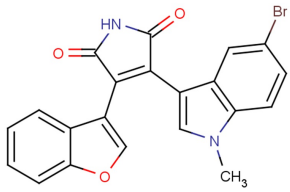
Data Sheet (Cat.No.T14613)

TargetMol
A DRUG SCREENING EXPERT

BIP-135

Chemical Properties



CAS No.:	941575-71-9
Formula:	C21H13BrN2O3
Molecular Weight:	421.24
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	BIP-135 is a potent and selective ATP-competitive GSK-3 inhibitor. With IC50s of 16 nM and 21 nM for GSK-3α and GSK-3β, respectively. BIP 135 exhibits neuroprotective effect[1].
Targets(IC_{50})	GSK-3α: 16 nM GSK-3β: 21 nM
In vitro	BIP-135 (20 μM; 48 hours) is a superior neuroprotective agent in the model of oxidative stress[1]. BIP-135 (20-30 μM; 72 hours) increases the survival motor neuron (SMN) protein levels at a dose of 25 μM in human SMA fibroblasts. And the typical bell-shaped dose-response curve is observed due to some toxicity at higher concentrations[1].
In vivo	BIP-135 (75 mg/kg; i.p.; daily; from postnatal day 0 to 21) prolongs the median survival time of Δ7 SMA KO mouse model of spinal muscular atrophy. And it does not appear to be toxic and was well-tolerated by the animals (no decrease in body weight)[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.374 mL	11.87 mL	23.739 mL
5 mM	0.475 mL	2.374 mL	4.748 mL
10 mM	0.237 mL	1.187 mL	2.374 mL
50 mM	0.047 mL	0.237 mL	0.475 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 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Chen PC, et al. Identification of a Maleimide-Based Glycogen Synthase Kinase-3 (GSK-3) Inhibitor, BIP-135, that Prolongs the Median Survival Time of Δ7 SMA KO Mouse Model of Spinal Muscular Atrophy. ACS Chem Neurosci. 2012 Jan 18;3(1):5-11.

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