

BIP-135

Chemical Properties

CAS No. : 941575-71-9

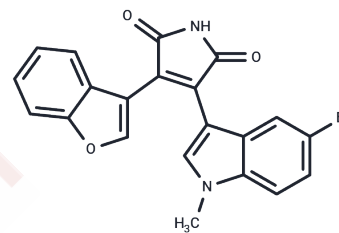
Formula: C₂₁H₁₃BrN₂O₃

Molecular Weight: 421.24

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	BIP-135 is a potent and selective ATP-competitive GSK-3 inhibitor, with IC ₅₀ values of 16 nM and 21 nM for GSK-3 α and GSK-3 β , respectively, and exhibits neuroprotective effects [1].
Targets(IC ₅₀)	GSK-3
In vitro	BIP-135 (20 μ M; 48 hours) is a superior neuroprotective agent in the model of oxidative stress[1]. BIP-135 (20-30 μ M; 72 hours) increases the survival motor neuron (SMN) protein levels at a dose of 25 μ M 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 Δ 7 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	DMSO: 56.7 mg/mL (134.6 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3739 mL	11.8697 mL	23.7394 mL
5 mM	0.4748 mL	2.3739 mL	4.7479 mL
10 mM	0.2374 mL	1.187 mL	2.3739 mL
50 mM	0.0475 mL	0.2374 mL	0.4748 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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 $\Delta 7$ SMA KO Mouse Model of Spinal Muscular Atrophy. ACS Chem Neurosci. 2012 Jan 18;3(1):5-11.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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