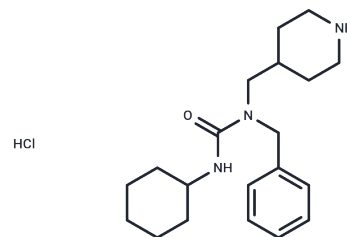


SRI-011381 hydrochloride

Chemical Properties

CAS No. :	2070014-88-7
Formula:	C ₂₀ H ₃₂ ClN ₃ O
Molecular Weight:	365.94
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	SRI-011381 hydrochloride, a new-type agonist of the TGF-beta signaling pathway, is utilized in the treatment of Alzheimer's disease.
Targets(IC50)	TGF-beta/Smad
In vitro	SRI-11381 is neuroprotective. SRI-011381 promote fibrillar A β clearance by macrophages, as demonstrated by the dose-dependent decreases of A β in the conditioned medium derived from compound-treated macrophages.
In vivo	SRI-011381 protects mice against kainic acid-induced excitotoxicity and neurodegeneration. SRI-011381 (30 mg/kg, dissolved in DMSO) is injected (i.p.) into the SBE-luc mice. SRI-011381 is rapidly absorbed after oral administration to FBV mice with an oral bioavailability of approximately 50%. SRI-011381 by oral gavage of 10, 30, and 75 mg/kg for 14 days resulted in significant changes in hematological endpoints, most notably reductions in red blood cells, hematocrit and hemoglobin. SRI-011381 reduces neurodegeneratio in APP751Lon, Swetransgenic mice.

Solubility Information

Solubility	DMSO: 12 mg/mL (32.79 mM), H ₂ O: 76.92 mg/mL (210 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7327 mL	13.6634 mL	27.3269 mL
5 mM	0.5465 mL	2.7327 mL	5.4654 mL
10 mM	0.2733 mL	1.3663 mL	2.7327 mL
50 mM	0.0547 mL	0.2733 mL	0.5465 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.

Reference

Benzyl urea derivatives for activating tgf-beta signaling. US 20160039756 A1. 2016. Feb

Yao Z, Zhang F, Qi C, et al. SECTM1 promotes the development of glioblastoma and mesenchymal transition by