

Pluripotin

Chemical Properties

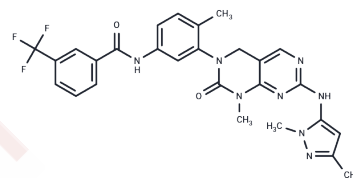
CAS No. : 839707-37-8

Formula: C₂₇H₂₅F₃N₈O₂

Molecular Weight: 550.53

Appearance: no data available

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



Biological Description

Description	Pluripotin (SC1) (SC1), which keep embryonic stem cell (ESC) self-renewal, is a dual inhibitor of extracellular signal-regulated kinase 1 (ERK1, MAPK3) and RasGAP.
Targets(IC50)	ERK,Raf,S6 Kinase
In vitro	Pluripotin is a dual function small molecule inhibitor of both ERK1 and RasGAP and that simultaneous inhibition of both protein activities is required and sufficient for Pluripotin's effects on mES cells. Pluripotin activates Ras by inhibition of RasGAP function [1]. Pluripotin improved the derivation efficiency and pluripotency of ES cells from C57BL/6. Three types of pluripotent stem cells (fES, ntES, and iPS cells) of the C57BL/6 background could generate full-term pups with high efficiency when cultured with Pluripotin[1].

Solubility Information

Solubility	DMSO: 13.8 mg/mL (25.07 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8164 mL	9.0822 mL	18.1643 mL
5 mM	0.3633 mL	1.8164 mL	3.6329 mL
10 mM	0.1816 mL	0.9082 mL	1.8164 mL
50 mM	0.0363 mL	0.1816 mL	0.3633 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

Chen S, et al. Proc Natl Acad Sci U S A. 2006, 103(46):17266-17271.

Lin CJ, et al. PLoS One. 2014, 9(9):e106916.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286

E_mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481