

SR9011

Chemical Properties

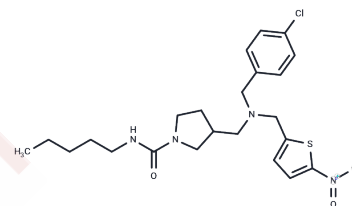
CAS No. : 1379686-29-9

Formula: C₂₃H₃₁ClN₄O₃S

Molecular Weight: 479.04

Appearance: no data available

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



Biological Description

Description	SR9011 is a REV-ERB agonist (IC ₅₀ : 790 nM, REV-ERB α ; IC ₅₀ : 560 nM, REV-ERB β).
Targets(IC ₅₀)	Autophagy
In vitro	SR9011 and SR9009 effectively inhibits transcription in a cotransfection assay using full-length REV-ERB α along with a luciferase reporter driven by the Bmal1 promoter (SR9011 IC ₅₀ : 620 nM). SR9011 suppresses the expression of BMAL1 mRNA in HepG2 cells in a REV-ERB α / β -dependent manner.
In vivo	SR9011 inhibits the activity of the SCN clock, with reversible inhibition of circadian oscillations in SCN explants cultured from the Per2: Luc reporter mouse.

Solubility Information

Solubility	DMSO: 50 mg/mL (104.38 mM), Sonication is recommended. (< 1 mg/mL refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0875 mL	10.4375 mL	20.8751 mL
5 mM	0.4175 mL	2.0875 mL	4.175 mL
10 mM	0.2088 mL	1.0438 mL	2.0875 mL
50 mM	0.0418 mL	0.2088 mL	0.4175 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

Solt LA, et al. Nature. 2012 Mar 29;485(7396):62-8.

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