

SR9011

Chemical Properties

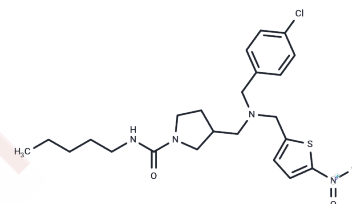
CAS No. : 1379686-29-9

Formula: C₂₃H₃₁ClN₄O₃S

Molecular Weight: 479.04

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	SR9011 is a REV-ERB agonist (IC ₅₀ : 790 nM, REV-ERB α ; IC ₅₀ : 560 nM, REV-ERB β).
Targets(IC ₅₀)	Autophagy,REV-ERB
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)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.18 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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.

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

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

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