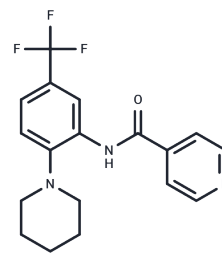


SRPIN340

Chemical Properties

CAS No. : 218156-96-8
 Formula: C₁₈H₁₈F₃N₃O
 Molecular Weight: 349.35
 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	SRPIN340 (SRPK inhibitor), a serine/arginine-rich protein kinase (SRPK)-specific inhibitor, is potent for SRPK1 (IC ₅₀ = 0.89 μM).
Targets(IC ₅₀)	Serine/threonin kinase,Virus Protease
In vitro	In Flp-In293 cells, SRPIN340 inhibited SR phosphorylation via SRPK, promoted SRp75 degradation, and subsequently inhibited the production of HIV.In CHO cells, SRPIN340 (5 mg/ml) did not produce abnormalities in chromosome structure and chromosome number.
In vivo	In Flp-In293 cells, SRPIN340 inhibited SR phosphorylation via SRPK, promoted SRp75 degradation, and subsequently inhibited the production of HIV.In CHO cells, SRPIN340 (5 mg/ml) did not produce abnormalities in chromosome structure and chromosome number.

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 65 mg/mL (186.06 mM),Sonication is recommended. DMSO: 250 mg/mL (715.61 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2.5 mg/mL (7.16 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	2.8625 mL	14.3123 mL	28.6246 mL
5 mM	0.5725 mL	2.8625 mL	5.7249 mL
10 mM	0.2862 mL	1.4312 mL	2.8625 mL
50 mM	0.0572 mL	0.2862 mL	0.5725 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

Fukuhara T, et al. Proc Natl Acad Sci U S A. 2006, 103(30), 11329-11333.

Karakama Y, et al. Antimicrob Agents Chemother. 2010, 54(8), 3179-3186.

Dong Z, et al. Mol Vis. 2013, 19, 536-543.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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