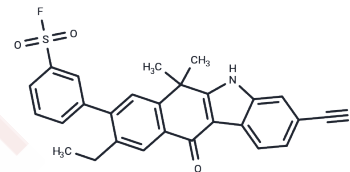


SRPKIN-1

Chemical Properties

CAS No. :	2089226-94-6
Formula:	C ₂₇ H ₂₁ FN ₂ O ₃ S
Molecular Weight:	472.53
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	SRPKIN-1 is a covalent and irreversible inhibitor of SRPK1/2 (IC ₅₀ s: 35.6 and 98 nM, respectively).
Targets(IC ₅₀)	Serine/threonin kinase
In vitro	SRPK-IN-1 effectively converts VEGF from pro-angiogenic to anti-angiogenic isoform. SRPKIN-1 treatment at 200 nM (10, 50, 100, 200 nM, 16 hours) obviously decreases SR protein phosphorylation at the steady-state with or without washout [1].
In vivo	SRPKIN-1 (50 nM, 300 nM, 1 μL, 5 times) blocks angiogenesis through VEGF alternative splicing in a CNV mouse model [1].

Solubility Information

Solubility	DMSO: 110 mg/mL (232.79 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: 3.3 mg/mL (6.98 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	2.1163 mL	10.5813 mL	21.1627 mL
5 mM	0.4233 mL	2.1163 mL	4.2325 mL
10 mM	0.2116 mL	1.0581 mL	2.1163 mL
50 mM	0.0423 mL	0.2116 mL	0.4233 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

Hatcher JM, et al. SRPKIN-1: A Covalent SRPK1/2 Inhibitor that Potently Converts VEGF from Pro-angiogenic to Anti-angiogenic Isoform. Cell Chem Biol. 2018 Apr 19;25(4):460-470.e6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481