

SRI-42127

Chemical Properties

CAS No. : 2727872-68-4

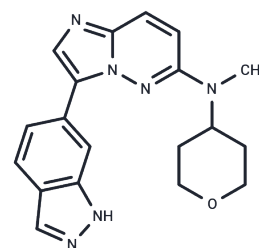
Formula: C₁₉H₂₀N₆O

Molecular Weight: 348.4

Store at low temperature

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	SRI-42127 is a novel small molecule inhibitor of the RNA regulatory factor HuR, which inhibits tumor growth, attenuates glial activation in a lipopolysaccharide-induced neuroinflammation model, and reduces neuropathic pain after nerve injury by inhibiting the neuroinflammatory response.
Targets(IC50)	HuR
In vitro	SRI-42127 (0.05-1 μM; 24 h) inhibits HuR translocation in LPS-activated glial cells in vitro, significantly reducing the production of pro-inflammatory mediators such as IL1β, IL-6, TNF-α, iNOS, CXCL1, and CCL2[1].
In vivo	SRI-42127 (15 mg/kg; intraperitoneal injection; single dose) inhibits in vivo microglial activation and reduces neutrophil and monocyte recruitment/chemotaxis[1].

Solubility Information

Solubility	DMSO: 30 mg/mL (86.11 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 (5.74 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	2.8703 mL	14.3513 mL	28.7026 mL
5 mM	0.5741 mL	2.8703 mL	5.7405 mL
10 mM	0.287 mL	1.4351 mL	2.8703 mL
50 mM	0.0574 mL	0.287 mL	0.5741 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

Chellappan R, et al. SRI-42127, a novel small molecule inhibitor of the RNA regulator HuR, potently attenuates glial activation in a model of lipopolysaccharide-induced neuroinflammation. *Glia*. 2022 Jan;70(1):155-172.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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