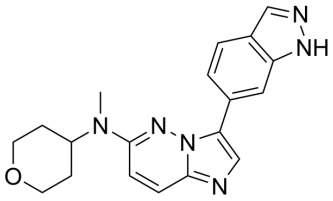
SRI-42127

Cat. No.:	HY-148853
CAS No.:	2727872-68-4
Molecular Formula:	$C_{19}H_{20}N_6O$
Molecular Weight:	348.4
Target:	HuR
Pathway:	Epigenetics
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (143.51 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8703 mL	14.3513 mL	28.7026 mL
	5 mM	0.5741 mL	2.8703 mL	5.7405 mL
	10 mM	0.2870 mL	1.4351 mL	2.8703 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 50% PEG300 >> 50% saline
   Solubility: 12.5 mg/mL (35.88 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

SRI-42127 is a HuR translocation inhibitor. HuR is an RNA regulator that binds to AREs, and HuR translocations promote the production of inflammatory cytokines in glial cells. However, SRI-42127 can destroy mRNA stability and inhibit gene promoter activation. SRI-42127 also inhibits microglial cell activation and attenuates recruitment/chemotaxis of neutrophils and monocytes[1].

IC_{50} & Target

HuR[1]

In Vitro

SRI-42127 (0.05-1 μM; 24 h) blocks HuR cytoplasmic translocation stimulated by LPS (1 μg/mL) in primary microglia[1].
SRI-42127 (0.05-1 μM; 24 h) suppresses inflammatory cytokine and chemokine mRNA in activated Primary microglia cells (PMG)[1].
SRI-42127 (0.5 μM and 1 μM; 24 h) blocks glial-produced chemoattraction/migration signals for neutrophils and monocytes [1].

	MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	SRI-42127 (15 mg/kg; i.p.; single dose) suppresses HuR translocation and the activation of microglia in mice model[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

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