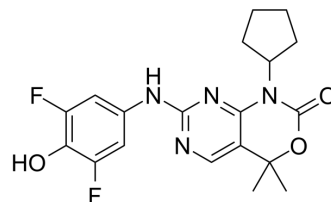


RSK4-IN-1

Cat. No.:	HY-132891
CAS No.:	2755819-10-2
Molecular Formula:	C ₁₉ H ₂₀ F ₂ N ₄ O ₃
Molecular Weight:	390.38
Target:	Ribosomal S6 Kinase (RSK)
Pathway:	MAPK/ERK Pathway
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (256.16 mM; ultrasonic and warming and heat to 80°C)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.5616 mL	12.8080 mL	25.6161 mL
		5 mM	0.5123 mL	2.5616 mL	5.1232 mL
	10 mM	0.2562 mL	1.2808 mL	2.5616 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (6.40 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.40 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	RSK4-IN-1 is a potent RSK4 inhibitor with a IC ₅₀ value of 9.5 nM. RSK4-IN-1 has antitumor activity ^[1] .
IC ₅₀ & Target	RSK4 9.5 nM (IC ₅₀)

REFERENCES

[1]. Yuan Y, et al. Discovery, Optimization, and Structure-Activity Relationship Study of Novel and Potent RSK4 Inhibitors as Promising Agents for the Treatment of Esophageal Squamous Cell Carcinoma. J Med Chem. 2021 Sep 23;64(18):13572-13587.

Caution: Product has not been fully validated for medical applications. For research use only.

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