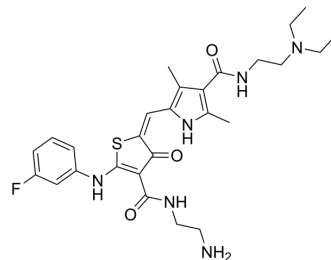


RNase L-IN-1

Cat. No.:	HY-155583		
Molecular Formula:	C ₂₇ H ₃₅ FN ₆ O ₃ S		
Molecular Weight:	542.67		
Target:	DNA/RNA Synthesis		
Pathway:	Cell Cycle/DNA Damage		
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 : 8.33 mg/mL (15.35 mM; ultrasonic and warming and heat to 80°C)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.8427 mL	9.2137 mL	18.4274 mL
		5 mM		0.3685 mL	1.8427 mL	3.6855 mL
	10 mM		0.1843 mL	0.9214 mL	1.8427 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: 0.83 mg/mL (1.53 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	RNase L-IN-1 (compound 17a) is an inhibitor of RNase L, or Ribonuclease L. RNase L degrades RNAs to prevent viral replication, and mediates the innate immune responses and inflammation ^[1] .
IC₅₀ & Target	RNase L ^[1]

REFERENCES

[1]. Hwang J, et al. Rational design and evaluation of 2-((pyrrol-2-yl)methylene)thiophen-4-ones as RNase L inhibitors. Eur J Med Chem. 2023 Aug 5;256:115439.

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

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