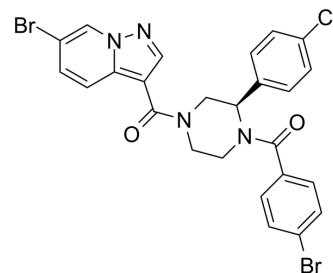


(R)-eIF4A3-IN-2

Cat. No.:	HY-43913		
CAS No.:	2095484-82-3		
Molecular Formula:	C ₂₅ H ₁₉ Br ₂ ClN ₄ O ₂		
Molecular Weight:	602.7		
Target:	Eukaryotic Initiation Factor (eIF)		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (82.96 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.6592 mL	8.2960 mL	16.5920 mL	
		5 mM	0.3318 mL	1.6592 mL	3.3184 mL	
10 mM		0.1659 mL	0.8296 mL	1.6592 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 (4.15 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.15 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	(R)-eIF4A3-IN-2 is a less active enantiomer of eIF4A3-IN-2. eIF4A3-IN-2 is a highly selective and noncompetitive eukaryotic initiation factor 4A-3 (eIF4A3) inhibitor with an IC ₅₀ of 110 nM ^[1] .
In Vitro	Eukaryotic initiation factor 4A-3 (eIF4A3) is an Asp-Glu-Ala-Asp (DEAD) box-family adenosine triphosphate (ATP)-dependent RNA helicase ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Iwatani-Yoshihara M, et al. Discovery and Characterization of a Eukaryotic Initiation Factor 4A-3-Selective Inhibitor That Suppresses Nonsense-Mediated mRNA Decay. ACS Chem Biol. 2017;12(7):1760-1768.

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

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