eIF4A3-IN-8

Cat. No.: HY-33838

CAS No.: 18474-59-4

Molecular Formula: $C_{10}H_9NO_2$

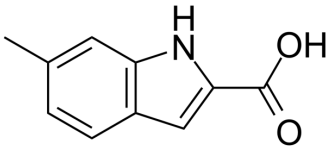
Molecular Weight: 175.18

Target: Eukaryotic Initiation Factor (eIF)

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 : 100 mg/mL (570.84 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	5.7084 mL	28.5421 mL	57.0841 mL
5 mM	1.1417 mL	5.7084 mL	11.4168 mL
10 mM	0.5708 mL	2.8542 mL	5.7084 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 (14.27 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (14.27 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (14.27 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

eIF4A3-IN-8 is a selective ATP-competitive eukaryotic initiation factor 4A3 (eIF4A3) inhibitor. eIF4A3-IN-8 can serve as a valuable chemical probe to elucidate the detailed function of eIF4A3 and EJC (exon junction complex)[1].

REFERENCES

[1]. Ito M, et al. Discovery of selective ATP-competitive eIF4A3 inhibitors. Bioorg Med Chem. 2017 Apr 1;25(7):2200-2209.

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