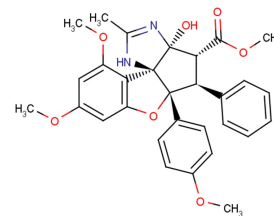


CMLD012073

**Chemical Properties**

CAS No.:	2368900-32-5
Formula:	C30H30N2O7
Molecular Weight:	530.57
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	CMLD012073 is a potent eukaryotic initiation factor 4A (eIF4A) inhibitor. It inhibits NIH/3T3 cells (IC <sub>50</sub> : 10 nM). CMLD012073 inhibits eukaryotic translation initiation by modifying the behavior of the RNA helicase (eIF4A).
Targets(IC <sub>50</sub> )	eIF4A: None
In vitro	In in vitro translation assays, CMLD012073 is potent at inhibiting cap-dependent translation (FF). In ribosome recruitment experiments, CMLD012073 inhibits assembly of the 80S ribosome on the mRNA.

**Solubility Information**

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.885 mL	9.424 mL	18.848 mL
5 mM	0.377 mL	1.885 mL	3.77 mL
10 mM	0.188 mL	0.942 mL	1.885 mL
50 mM	0.038 mL	0.188 mL	0.377 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Chu J, et al. Amidino-Rocaglates: A Potent Class of eIF4A Inhibitors. Cell Chem Biol. 2019 Nov 21;26(11):1586-1593.

Inhibitors · Natural Compounds · Compound Libraries

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