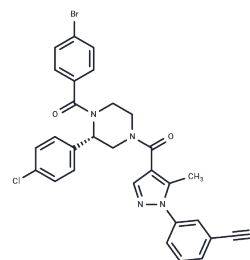


eIF4A3-IN-1

Chemical Properties

CAS No. : 2095486-67-0
 Formula: C₂₉H₂₃BrClN₅O₂
 Molecular Weight: 588.88
 Storage: Store at low temperature
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	eIF4A3-IN-1 is a selective and potent inhibitor of eukaryotic initiation factor 4A3 (eIF4A3) with an IC ₅₀ value of 0.26 μM. eIF4A3-IN-1 inhibits cytosolic nonsense-mediated RNA decay at high concentrations.
Targets(IC ₅₀)	PERK

Solubility Information

Solubility	DMSO: 160 mg/mL (271.7 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 5 mg/mL (8.49 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6981 mL	8.4907 mL	16.9814 mL
5 mM	0.3396 mL	1.6981 mL	3.3963 mL
10 mM	0.1698 mL	0.8491 mL	1.6981 mL
50 mM	0.034 mL	0.1698 mL	0.3396 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ito M, et al. Discovery of Novel 1,4-Diacylpiperazines as Selective and Cell-Active eIF4A3 Inhibitors. J Med Chem. 2017 Apr 27;60(8):3335-3351.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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