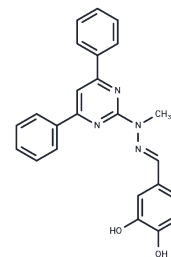


MK-28

Chemical Properties

CAS No. : 864388-65-8
 Formula: C₂₄H₂₀N₄O₂
 Molecular Weight: 396.44
 Storage: 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	MK-28 is a selective PERK agonist that reduces toxicity and prolongs survival in a Huntington's disease model. MK-28 has a significant killing effect on MK28 gastric cancer cells.
Targets(IC50)	Antiviral, PERK
In vitro	In STHdhQ111/111 cells, MK-28 (0-100 μM; 48 h) rescued cells from ER stress-induced apoptosis[1].
In vivo	In R6/2 mice, MK-28 (1 mg/kg; IP, daily for 28 days) increased the survival rate[1].

Solubility Information

Solubility	DMSO: 10 mg/mL (25.22 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5224 mL	12.6122 mL	25.2245 mL
5 mM	0.5045 mL	2.5224 mL	5.0449 mL
10 mM	0.2522 mL	1.2612 mL	2.5224 mL
50 mM	0.0504 mL	0.2522 mL	0.5045 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

Javier Ganz, et al. A novel specific PERK activator reduces toxicity and extends survival in Huntington's disease models. Sci Rep. 2020 Apr 23;10(1):6875.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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