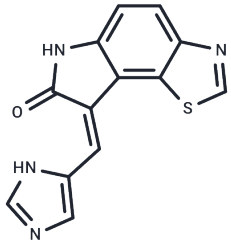
Data Sheet (Cat.No.T16550)

TargetMol

PKR-IN-C16

Chemical Properties



CAS No. : 608512-97-6

Formula: C13H8N4OS

Molecular Weight: 268.29

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	PKR-IN-C16 is a specific protein kinase (PKR) inhibitor. PKR-IN-C16 is able to inhibit the autophosphorylation of PKR and unlock the translation blockade induced by PKR in primary neuronal cultures.PKR-IN-C16 binds the ATP-binding site of PKR and blocks autophosphorylation with an IC50 value of 186-210 nM. PKR-IN-C16 protects human neuroblastoma cells against cell damage triggered by tunicamycin-mediated endoplasmic reticulum stress.
Targets(IC50)	Apoptosis,Others

Solubility Information

Solubility	DMSO: 6.1 mg/mL (22.74 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 0.61 mg/mL (2.27 mM),Solution. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7273 mL	18.6366 mL	37.2731 mL
5 mM	0.7455 mL	3.7273 mL	7.4546 mL
10 mM	0.3727 mL	1.8637 mL	3.7273 mL
50 mM	0.0745 mL	0.3727 mL	0.7455 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

Tronel C, et al. The specific PKR inhibitor C16 prevents apoptosis and IL-1β production in an acute excitotoxic rat model with a neuroinflammatory component. Neurochem Int. 2014 Jan;64:73-83.