

PKR-IN-C51

Chemical Properties

CAS No. : 1314594-23-4

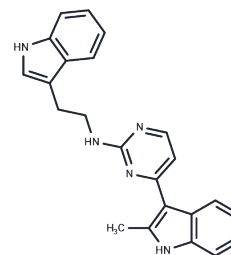
Formula: C₂₃H₂₁N₅

Molecular Weight: 367.45

Keep away from direct sunlight

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-C51 is a dose-dependent and ATP-competitive protein kinase R (PKR) inhibitor that inhibits intracellular PKR activation and autophosphorylation in mouse macrophages with an IC ₅₀ =9 μM and K _i =3.4 μM. Interferon-induced double-stranded RNA-activated protein kinase (PKR) is a widely expressed Ser/Thr kinase.
Targets(IC ₅₀)	Serine Protease, Serine/threonin kinase

Solubility Information

Solubility	DMSO: 100 mg/mL (272.15 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (10.89 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	2.7215 mL	13.6073 mL	27.2146 mL
5 mM	0.5443 mL	2.7215 mL	5.4429 mL
10 mM	0.2721 mL	1.3607 mL	2.7215 mL
50 mM	0.0544 mL	0.2721 mL	0.5443 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

Harvey A L. Natural products in drug discovery[J]. Drug discovery today, 2008, 13(19-20): 894-901.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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