

PKR-IN-C51

Chemical Properties

CAS No. : 1314594-23-4

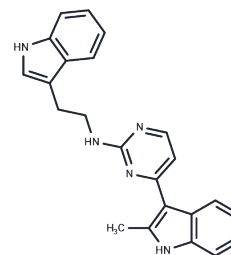
Formula: C₂₃H₂₁N₅

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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