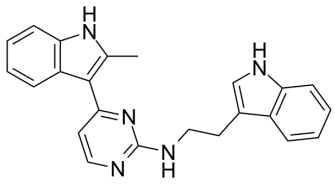
PKR-IN-C51

Cat. No.:	HY-118131
CAS No.:	1314594-23-4
Molecular Formula:	$C_{23}H_{21}N_5$
Molecular Weight:	367.45
Target:	Ser/Thr Protease
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (340.18 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (5.66 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.66 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PKR-IN-C51(compound 51) is an ATP-competitive double-stranded RNA-activated protein kinase (PKR) inhibitor with an IC_{50} of 9 μM. PKR-IN-C51 inhibits intracellular PKR activation in a dose-dependent manner in primary mouse macrophages[1].

IC_{50} & Target

IC50: 9 μM (double-stranded RNA-activated protein kinase (PKR))[1]

REFERENCES

[1]. Ruslana Bryk, et al. Identification of new inhibitors of protein kinase R guided by statistical modeling. Bioorg Med Chem Lett. 2011 Jul 1;21(13):4108-14.

Caution: Product has not been fully validated for medical applications. For research use only.

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