Proteins

Product Data Sheet

Roginolisib

Cat. No.: HY-135827 CAS No.: 1305267-37-1 Molecular Formula: $C_{26}H_{27}FN_4O_5S$ Molecular Weight: 526.58 PI3K Target:

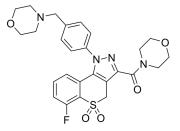
Pathway: PI3K/Akt/mTOR

Storage: Powder -20°C 3 years

2 years

In solvent -80°C 2 years

> -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (189.90 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.8990 mL	9.4952 mL	18.9905 mL
	5 mM	0.3798 mL	1.8990 mL	3.7981 mL
	10 mM	0.1899 mL	0.9495 mL	1.8990 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: ≥ 10 mg/mL (18.99 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 10 mg/mL (18.99 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 10 mg/mL (18.99 mM); Clear solution

BIOLOGICAL ACTIVITY

Description $Roginolisib \ (MSC2360844; IOA-244) \ is a potent, or ally active \ and \ selective \ PI3K\delta \ inhibitor, \ with \ an \ IC_{50} \ of \ 145 \ nM. \ Roginolisib \ (MSC2360844; IOA-244) \ is a potent, \ or all \ particles \ and \ selective \ PI3K\delta \ inhibitor, \ with \ an \ IC_{50} \ of \ 145 \ nM. \ Roginolisib \ (MSC2360844; IOA-244) \ is a potent, \ or all \ particles \ property \ and \ particles \ property \ particles \ property \ particles \ p$ shows highly selective against a panel of 278 additional kinases^[1].

ΡΙ3Κδ IC₅₀ & Target ΡΙ3Κα ΡΙ3Κβ 145 nM (IC₅₀) 18500 nM (IC₅₀) 2850 nM (IC₅₀)

In Vitro Roginolisib (0-10 μ M; 1 hours) completely abolished BCR-induced pAkt in Ramos B cells in a concentration-dependent manner with IC_{50} values of 280 nM^[1].

Roginolisib inhibits B cell proliferation in a concentration-dependent manner with an IC₅₀ of 48 nM. Roginolisib blocks BCR- and TCR-mediated responses in lymphocytes and TLR-induced IFN α by pDC in human primary cells^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay^[1]

Cell Line:	B cells	
Concentration:	0-10 μΜ	
Incubation Time:	1 hour	
Result:	Inhibited B cell proliferation in a concentration-dependent manner with an IC ₅₀ of 48 nM.	

In Vivo

Roginolisib (6.6-66 mg/kg; daily from week 2 to 10) ameliorates disease manifestations in a murine SLE model $^{[1]}$. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	NZB/W F1 female mice ^[1]	
Dosage:	6.6, 22, or 66 mg/kg	
Administration:	Oral; starting at week 2 post ADV-IFN $\!\alpha$ delivery, once daily at 10 weeks	
Result:	Significantly reduced proteinuria incidence and severity in a dose-dependent manner.	

REFERENCES

[1]. Haselmayer P, et al. Characterization of Novel PI3Kδ Inhibitors as Potential Therapeutics for SLE and Lupus Nephritis in Pre-Clinical Studies. Front Immunol. 2014 May 22;5:233.

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

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