Multi-kinase inhibitor 1

Cat. No.: HY-103032

CAS No.: 778274-97-8

Molecular Formula: $C_{20}H_{17}F_3N_4O_3$

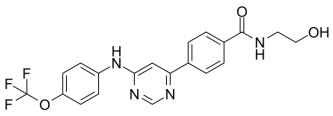
Molecular Weight: 418.37

Target: PDGFR; c-Kit; Bcr-Abl

Pathway: Protein Tyrosine Kinase/RTK

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (239.02 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.3902 mL	11.9511 mL	23.9023 mL
5 mM	0.4780 mL	2.3902 mL	4.7805 mL
10 mM	0.2390 mL	1.1951 mL	2.3902 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: ≥ 2.5 mg/mL (5.98 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.98 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Multi-kinase inhibitor 1 is a potent multi-kinase inhibitor. Multi-kinase inhibitor 1 has the potential for diseases or disorders associated with abnormal or deregulated tyrosine kinase activity, particularly diseases associated with the activity of PDGF-R, c-Kit and Bcr-abl[1].

IC_{50} & Target	PDGFR	Bcr-Abl

In Vitro

Multi-kinase inhibitor 1 (compound 68) is a potent multi-kinase inhibitor. The protein kinases represent a large family of proteins, which play a central role in the regulation of a wide variety of cellular processes and maintaining control over cellular function. These kinases include receptor tyrosine kinases, such as platelet derived growth factor receptor kinase(PDGF-R), the receptor kinase for stem cell factor, c-Kit, and non-receptor tyrosine kinases, such as the fusion kinase Bcr-abl[1].

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

REFERENCES

[1]. Qiang Ding, et al. Novel compounds and compositions as protein kinase inhibitors. WO2004089286A2.

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