TIE-2/VEGFR-2 kinase-IN-1

Cat. No.: HY-112294

CAS No.: 453590-24-4

Molecular Formula: $C_{13}H_{11}N_3O_2$

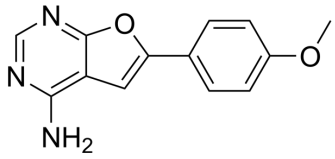
Molecular Weight: 241.25

Target: VEGFR; Tie

Pathway: Protein Tyrosine Kinase/RTK

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (20.73 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.1451 mL	20.7254 mL	41.4508 mL
	5 mM	0.8290 mL	4.1451 mL	8.2902 mL
	10 mM	0.4145 mL	2.0725 mL	4.1451 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: 4 mg/mL (16.58 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 4 mg/mL (16.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

TIE-2/VEGFR-2 kinase-IN-1 is used for the synthesis of TIE-2 and/or VEGFR-2 inhibitors, extracted from patent WO2003022852, example 14. TIE-2/VEGFR-2 kinase-IN-1 is used for the study of diseases associated with inappropriate angiogenesis[1].

IC_{50} & Target

Tie2

In Vitro

Angiopoieten 1 is a ligand for the endotheiium-specific receptor tyrosine kinase, TIE-2 is a novel angiogenic factor[1]. Inhibition of TIE-2 is expected to serve to disrupt remodeling and maturation of new vasculature initiated by angiogenesis thereby disrupting the angiogenic process. Inhibition at the kinase domain binding site of VEGFR-2 would block phosphorylation of tyrosine residues and serve to disrupt initiation of angiogenesis.

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

REFERENCES

[1]. Jerry Leroy Adams, et al. Furo-and thienopyrimidine derivatives as angiogenesis inhibitors. Patent WO2003022852.

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