VEGFR-IN-1

Cat. No.: HY-101219

CAS No.: 269390-69-4

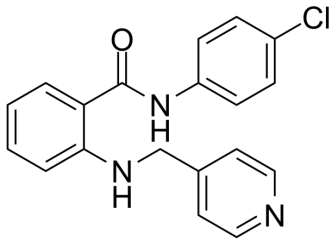
Molecular Formula: $C_{19}H_{16}ClN_3O$

Molecular Weight: 337.8

Target: VEGFR; c-Kit; EGFR

Pathway: Protein Tyrosine Kinase/RTK; JAK/STAT Signaling

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (370.04 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9603 mL	14.8017 mL	29.6033 mL
	5 mM	0.5921 mL	2.9603 mL	5.9207 mL
	10 mM	0.2960 mL	1.4802 mL	2.9603 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.08 mg/mL (6.16 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.16 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

VEGFR-IN-1 (compound 3) is a potent angiogenesis inhibitor with IC_{50}s of 0.02, 0.18, 0.24 7.3, and 7 μM for KDR, Flt-1, c-Kit, EGF-R, and c-Src, respectively[1].

IC_{50} & Target			
	KDR 0.02 μM (IC_{50})	Flt-1 0.18 μM (IC_{50})	EGFR 0.24 μM (IC_{50})

REFERENCES

[1]. Furet P, et al. Identification of a new chemical class of potent angiogenesis inhibitors based on conformational considerations and database searching. Bioorg Med

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