SU4312

Cat. No.: HY-100349

CAS No.: 5812-07-7

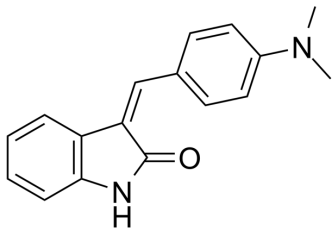
Molecular Formula: $C_{17}H_{16}N_2O$

Molecular Weight: 264.32

Target: PDGFR; VEGFR

Pathway: Protein Tyrosine Kinase/RTK

Storage: Powder -20°C 3 years
4°C 2 years
* The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (189.16 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.7833 mL	18.9165 mL	37.8329 mL
	5 mM	0.7567 mL	3.7833 mL	7.5666 mL
	10 mM	0.3783 mL	1.8916 mL	3.7833 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 (7.87 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

SU4312 is the racemate of (Z)-SU4312 and (E)-SU4312. (Z)-SU4312 inhibits PDGFR and FLK-1 with IC_{50}s of 19.4 and 0.8 μM, respectively. (E)-SU4312 inhibits PDGFR, FLK-1, EGFR, HER-2, and IGF-1R with IC_{50}s of 24.2, 5.2, 18.5, 16.9 and 10.0 μM, respectively[1].

IC_{50} & Target		
	PDGFR	Flk-1

In Vitro

Receptor tyrosine kinases (RTKs) have been shown to be important mediators of cellular signal transduction in cells. Many RTKs have been shown to be oncogene products implicating their role in the transformation process associated with human cancers[1].

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

REFERENCES

[1]. L Sun, et al. Synthesis and biological evaluations of 3-substituted indolin-2-ones: a novel class of tyrosine kinase inhibitors that exhibit selectivity toward particular receptor tyrosine kinases. J Med Chem. 1998 Jul 2;41(14):2588-603.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA