Fenlean

Cat. No.: HY-123506

CAS No.: 863193-70-8

Molecular Formula: $C_{26}H_{27}NO_6$

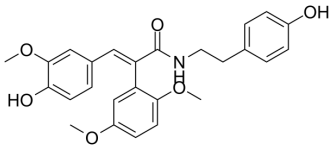
Molecular Weight: 449.5

Target: Src

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 : 100 mg/mL (222.47 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.2247 mL	11.1235 mL	22.2469 mL
5 mM	0.4449 mL	2.2247 mL	4.4494 mL
10 mM	0.2225 mL	1.1123 mL	2.2247 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 (5.56 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (5.56 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (5.56 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Fenlean, a natural squamosamide derivative, is a Src tyrosine kinase inhibitor. Fenlean can inhibit over-activated microglia and protect dopaminergic neurons. Fenlean can attenuate neuroinflammation in Parkinson's disease models[1][2][3].

IC_{50} & Target

Src tyrosine kinase[1]

REFERENCES

[1]. Tai W, et, al. Inhibition of Src tyrosine kinase activity by squamosamide derivative FLZ attenuates neuroinflammation in both in vivo and in vitro Parkinson's disease models. Neuropharmacology. 2013 Dec;75:201-12.

[2]. Cheng LB, et, al. Squamosamide derivative FLZ protects retinal pigment epithelium cells from oxidative stress through activation of epidermal growth factor receptor (EGFR)-AKT signaling. Int J Mol Sci. 2014 Oct 17;15(10):18762-75.

[3]. Ye X, et, al. FLZ inhibited γ-secretase selectively and decreased Aβ mitochondrial production in APP-SH-SY5Y cells. Naunyn Schmiedebergs Arch Pharmacol. 2014 Jan;387(1):75-85.

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