FzM1

Cat. No.: HY-116553

CAS No.: 1680196-54-6

Molecular Formula: $C_{21}H_{16}N_2O_2S$

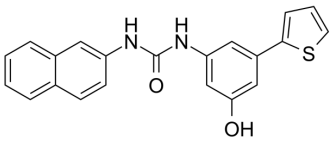
Molecular Weight: 360.43

Target: Wnt; β-catenin

Pathway: Stem Cell/Wnt

Storage:

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (173.40 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.7745 mL	13.8723 mL	27.7446 mL
5 mM	0.5549 mL	2.7745 mL	5.5489 mL
10 mM	0.2774 mL	1.3872 mL	2.7745 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 (5.77 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.08 mg/mL (5.77 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

FzM1 is a negative allosteric modulator (NAM) of Frizzled receptor FZD4. FzM1 reduces WNT5A-dependent WNT responsive element (WRE) activity (log EC_{50inh}=−6.2). FzM1 binds to an allosteric binding site located in intracellular loop 3 (ICL3) of FZD4 and alters the conformation of the receptor, ultimately inhibiting the WNT/β-catenin cascade[1].

REFERENCES

[1]. Gennaro Riccio, et al. A Negative Allosteric Modulator of WNT Receptor Frizzled 4 Switches into an Allosteric Agonist. Biochemistry. 2018 Feb 6;57(5):839-851.

Caution: Product has not been fully validated for medical applications. For research use only.

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