FzM1.8

Cat. No.: HY-117163

CAS No.: 2204290-85-5

Molecular Formula: $C_{18}H_{14}N_2O_4$

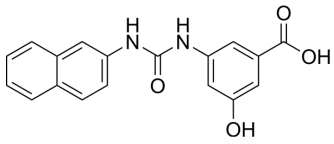
Molecular Weight: 322.31

Target: Wnt; β-catenin

Pathway: Stem Cell/Wnt

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 83.33 mg/mL (258.54 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.1026 mL	15.5130 mL	31.0260 mL
5 mM	0.6205 mL	3.1026 mL	6.2052 mL
10 mM	0.3103 mL	1.5513 mL	3.1026 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 (6.45 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.45 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.45 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

FzM1.8 derives from FzM1, is an allosteric agonist of FZD4 with pEC_{50} of 6.4. FzM1.8 binds to FZD4 and activates the WNT/β-catenin pathway, by promoting TCF/LEF transcriptional activity in the absence of any WNT ligand. FzM1.8 binding stabilizes FZD4 with an increased affinity for heterotrimeric G protein and stimulates the release of the Gβγ subunit that in turn activates PI3K[1].

IC_{50} & Target

pEC50: 6.4 (FzM1.8)[1]

REFERENCES

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

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