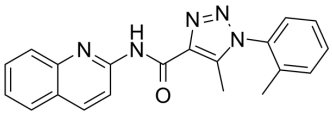
YW1128

Cat. No.:	HY-133180
CAS No.:	2131223-64-6
Molecular Formula:	$C_{20}H_{17}N_5O$
Molecular Weight:	343.38
Target:	Wnt; β-catenin
Pathway:	Stem Cell/Wnt
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 (291.22 mM; ultrasonic and warming and heat to 160°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.9122 mL	14.5611 mL	29.1223 mL
5 mM	0.5824 mL	2.9122 mL	5.8245 mL
10 mM	0.2912 mL	1.4561 mL	2.9122 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (7.28 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

YW1128 (compound 3a) is a potent Wnt/β-Catenin inhibitor. YW1128 induces the proteasome degradation of β-catenin and subsequent inhibits the Wnt/β-catenin signaling in cells. YW1128 significantly decreases hepatic lipid accumulation. YW1128 improves glucose tolerance of high fat diet-fed mice without noticeable toxicity. YW1128 down regulates the genes involved in the glucose and fatty acid anabolism[1].

REFERENCES

[1]. Obianom ON, et al. Triazole-Based Inhibitors of the Wnt/β-Catenin Signaling Pathway Improve Glucose and Lipid Metabolisms in Diet-Induced Obese Mice. J Med Chem. 2019 Jan 24;62(2):727-741.

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

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