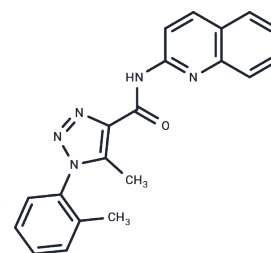


YW1128

Chemical Properties

CAS No. : 2131223-64-6
 Formula: C₂₀H₁₇N₅O
 Molecular Weight: 343.38
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	YW1128 is an inhibitor of Wnt/ β -catenin signaling with an IC ₅₀ value of 4.1 nM in a reporter assay. It decreases protein levels of β -catenin in the presence of the GSK3 β inhibitor lithium chloride and increases protein levels of Axin1 in HEK293 cells. YW1128 decreases lipid accumulation and the expression of gluconeogenic and lipogenic genes in Huh7 cells. It decreases the hepatic expression of Wnt target genes, improves glucose tolerance, and prevents body weight increases and hepatic lipid accumulation in mice fed a high-fat diet, but not mice fed normal chow, when administered at a dose of 40 mg/kg every other day for 11 weeks.
Targets(IC ₅₀)	Others,Wnt/beta-catenin

Solubility Information

Solubility	Ethanol: 30 mg/mL (87.37 mM),Sonication is recommended. PBS (pH 7.2): 2 mg/mL (5.82 mM),Sonication is recommended. DMF: 30 mg/mL (87.37 mM),Sonication is recommended. DMSO: 30 mg/mL (87.37 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (5.82 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0582 mL	0.2912 mL	0.5824 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Obianom, O.N., Ai, Y., Li, Y., et al. Triazole-based inhibitors of the Wnt/ β -catenin signaling pathway improve glucose and lipid metabolism in diet-induced obese mice. *J. Med. Chem.* 62(2), 727-741 (2019).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481