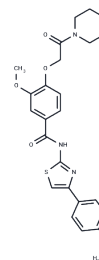


SBI-477

Chemical Properties

CAS No. : 781628-99-7
Formula: C₂₄H₂₅N₃O₆S
Molecular Weight: 483.54
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	SBI-477 is a chemical probe stimulated insulin signaling by deactivating the transcription factor MondoA. SBI-477 coordinately inhibits triacylglyceride (TAG) synthesis and enhances basal glucose uptake in human skeletal myocytes.
Targets(IC ₅₀)	Others
In vivo	SBI-477, that coordinately inhibited triacylglyceride (TAG) synthesis and enhanced basal glucose uptake in human skeletal myocytes. SBI-477 stimulated insulin signaling by deactivating the transcription factor MondoA, leading to reduced expression of the insulin pathway suppressors thioredoxin-interacting protein (TXNIP) and arrestin domain-containing 4 (ARRDC4). Depleting MondoA in myocytes reproduced the effects of SBI-477 on glucose uptake and myocyte lipid accumulation.

Solubility Information

Solubility	DMSO: 65 mg/mL (134.43 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0681 mL	10.3404 mL	20.6808 mL
5 mM	0.4136 mL	2.0681 mL	4.1362 mL
10 mM	0.2068 mL	1.034 mL	2.0681 mL
50 mM	0.0414 mL	0.2068 mL	0.4136 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.

Reference

Ahn B, et al. MondoA coordinately regulates skeletal myocyte lipid homeostasis and insulin signaling. J Clin Invest. 2016 Sep 1;126(9):3567-79.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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