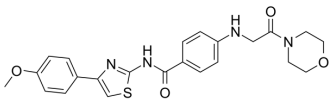
SBI-993

Cat. No.:	HY-122682
CAS No.:	2073059-82-0
Molecular Formula:	$C_{23}H_{24}N_4O_4S$
Molecular Weight:	452.53
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (220.98 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2098 mL	11.0490 mL	22.0980 mL
	5 mM	0.4420 mL	2.2098 mL	4.4196 mL
	10 mM	0.2210 mL	1.1049 mL	2.2098 mL

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

BIOLOGICAL ACTIVITY

Description

SBI-993 is a SBI-477 analog with improved potency and suitable pharmacokinetic properties for in vivo bioavailability. SBI-993 stimulates insulin signaling by deactivating the transcription factor MondoA[1].

In Vitro

SBI-993 reduces thioredoxin-interacting protein (TXNIP) and arrestin domain-containing 4 (ARRDC4) expression in human myotubes[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

SBI-993 (50 mg/kg; s.c.; daily; for 7 days) treatment reduces the expression of triacylglyceride synthesis and lipogenic genes in both muscle and liver. SBI-993 also reduces Txnip and Arrdc4 expression. And ccupation of both ChREBP and MondoA on the Txnip and pyruvate kinase (Pklr) gene promoters is reduced in liver by SBI-993[1].

SBI-993 improves insulin signaling in both muscle and liver following an acute insulin challenge[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Mice are fed a 60% high-fat diet (HFD)[1]
Dosage:	50 mg/kg

Administration:	s.c.; daily; for 7 days
Result:	Reduced the expression of triacylglyceride synthesis and lipogenic genes in both muscle and liver.

REFERENCES

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

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