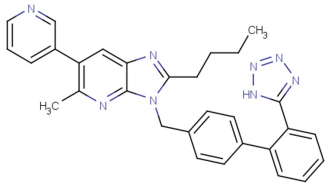
Data Sheet (Cat.No.T13169)

TargetMol
A DRUG SCREENING EXPERT

TM-25659

Chemical Properties



CAS No.:	260553-97-7
Formula:	C30H28N8
Molecular Weight:	500.6
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	TM-25659 is a modulator of transcriptional co-activator with PDZ-binding motif (TAZ), with anti-osteoporotic and anti-obesity activities.
Targets(IC_{50})	TAZ: None
In vitro	Treatment with TM-25659 (2, 10, 20, 100 μM) enhances nuclear TAZ localization in a dose-dependent manner and attenuates PPARγ-mediated adipocyte differentiation by facilitating PPARγ suppression activity of TAZ. Osteogenic gene expression enhanced by TM-25659 (2, 10, 50 μM) and thereby increases osteoblast differentiation.
In vivo	In vivo, TM-25659 (50 mg/kg, i.p., every other day for 2 weeks) suppresses bone loss and decreases weight gain in an obesity model. The plasma concentration of TM-25659 declines with an approximate t1/2 of 7 or 10 h following i.v or p.o. administration respectively. The systemic clearance (CL) is 0.21 L/(h×kg) and the volume of distribution at steady-state (1.91 L/(h×kg)) is larger than the volume of total body fluids.

Solubility Information

Solubility	DMSO: 135 mg/mL (269.68 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.998 mL	9.988 mL	19.976 mL
5 mM	0.4 mL	1.998 mL	3.995 mL
10 mM	0.2 mL	0.999 mL	1.998 mL
50 mM	0.04 mL	0.2 mL	0.4 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Jang EJ, et al. TM-25659 enhances osteogenic differentiation and suppresses adipogenic differentiation by modulating the transcriptional co-activator TAZ. Br J Pharmacol. 2012 Mar;165(5):1584-94.

Inhibitors · Natural Compounds · Compound Libraries

Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481