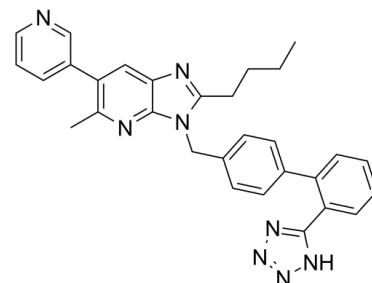


Data Sheet

| | |
|--------------------|--|
| Product Name: | TM-25659 |
| Cat. No.: | CS-0069266 |
| CAS No.: | 260553-97-7 |
| Molecular Formula: | C30H28N8 |
| Molecular Weight: | 500.60 |
| Target: | Others |
| Pathway: | Others |
| Solubility: | H ₂ O : < 0.1 mg/mL (insoluble); DMSO : ≥ 135 mg/mL (269.68 mM) |



BIOLOGICAL ACTIVITY:

TM-25659 is a **transcriptional co-activator with PDZ-binding motif (TAZ)** modulator. Anti-osteoporotic and anti-obesity activities^[1]. IC₅₀ & Target: TAZ^[1] **In Vitro:** TM-25659 (2, 10, 20, 100 μM) enhances nuclear TAZ localization in a dose-dependent manner and attenuates PPAR_γ-mediated adipocyte differentiation by facilitating PPAR_γ suppression activity of TAZ^[1].

TM-25659 (2, 10, 50 μM) enhances osteogenic gene expression and thereby increases osteoblast differentiation^[1].

In Vivo: TM-25659 (50 mg/kg, i.p., every other day for 2 weeks) suppresses bone loss in vivo and decreases weight gain in an obesity model^[1].

TM-25659 has a favourable pharmacokinetic profile in rats. The plasma concentration of TM-25659 declines with an approximate t_{1/2} of 7 or 10 h following i.v or p.o. administration respectively. The systemic clearance (CL) is 0.21 L×h⁻¹×kg⁻¹ and the volume of distribution at steady-state (1.91 L×h⁻¹×kg⁻¹) is larger than the volume of total body fluids^[1].

References:

[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.

CAIndexNames:

3H-Imidazo[4,5-b]pyridine, 2-butyl-5-methyl-6-(3-pyridinyl)-3-[[2'-(2H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-

SMILES:

CC1=C(C2=CC=CN=C2)C=C3C(N(CC4=CC=C(C5=CC=CC=C5C6=NN=NN6)C=C4)C(CCCC)=N3)=N1

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

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