

Catalog Number: CM05352

产品信息

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CM05352

CAS号:
1681056-61-0

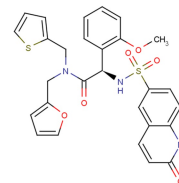
分子式:
C₂₈H₂₅N₃O₆S₂

主要靶点:
Others|Acyltransferase

主要通路:
代谢|其他

分子量:
563.64

溶解度:
DMSO:83.33 mg/mL (147.84 mM), Sonification is recommended.



靶点活性

O-GlcNAc transferase (OGT): 2.7 μM

体外活性

OSMI-1 inhibits OGT activity in cells. OSMI-1 (50 μM; 24 hours; CHO cells) treatment reduces the viability by about 50% after 24 hours. OSMI-1 (10-100 μM; 24 hours; CHO cells) treatment decreases global O-linked N-acetylglucosamine (O-GlcNAcylation) a dose-dependent manner [1].

体内活性

The zebrafish model is used to investigate OSMI-1 acute toxicity in vivo. The LC₅₀ of OSMI-1 is 0.031 mg/mL (56 μM, 12 h) and 0.025 mg/mL (45 μM, 24 h) in zebrafish model [2].

描述

OSMI-1 inhibits protein O-linked N-acetylglucosamine (O-GlcNAcylation) in several mammalian cell lines without qualitatively altering cell surface N- or O-linked glycans. OSMI-1 is a cell-permeable O-GlcNAc transferase (OGT) inhibitor (IC₅₀: 2.7 μM).

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years