

Catalog Number: CM06793

产品信息

Catalog Number:
CM06793

CAS号:
332382-54-4

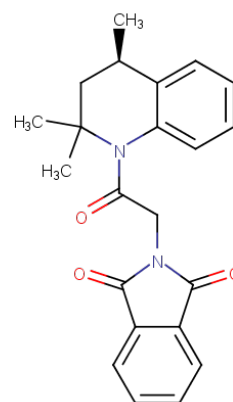
分子式:
C₂₂H₂₂N₂O₃

主要靶点:
Others|TRP/TRPV Channel

主要通路:
离子通道|其他

分子量:
362.42

溶解度:
DMSO:17 mg/mL (46.90 mM)



靶点活性

ZIKV:52.99 μ M (IC₅₀)|DENV2:8.3 μ M (IC₅₀)

体外活性

ML-SA1 (25 μ M; 0-14 hours; A549 cells) possibly affects the entry of DENV2 into host cells[1]. ML-SA1 (0-200 μ M; A549 cells) shows that there is no cytotoxicity to the cell line observed, even at concentrations up to 200 μ M. ML-SA1 (0-50 μ M; A549 cells) significantly suppresses DENV2 at the RNA levels and the IC₅₀ is 8.93 μ M[1]. ML-SA1 results in a dose-dependent decrease in ZIKV in A549 cells at both the RNA and protein levels, and the IC₅₀ value of ML-SA1 against ZIKV RNA is 52.99 μ M. ML-SA1, as an activator of TRPMLs, appears to be a potent inhibitor of DENV2 and ZIKV in vitro. ML-SA1 promotes lysosomal acidification and protease activity to inhibit viral infection. ML-SA1 can induce autophagy in Huh7 cells or A549 cells[1].

描述

ML-SA1 (Mucolipin synthetic agonist 1) is a selective TRPML agonist, inhibits Dengue virus 2 (DENV2) and Zika virus (ZIKV) by promoting lysosomal acidification and protease activity. The IC₅₀ value of ML-SA1 against DENV2 RNA and ZIKV RNA is 8.3 μ M and 52.99 μ M, respectively[1].

储存

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