For Research Use Only

CaCCinh-A01

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Catalog Number: CM03222

产品信息

Catalog Number:
CM03222

CAS号:
407587-33-1

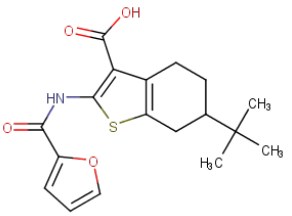
分子式:
$C_{18}H_{21}NO_4S$

主要靶点:
Chloride channel

主要通路:
离子通道

分子量:
347.43

溶解度:
DMSO:55 mg/mL (158.31 mM)



靶点活性

TMEM16A:2.1 μM|CaCC:10 μM

体外活性

Tannic acid (100 μM) and CaCCinh-A01 (30 μM) effectively inhibit CaCC current following ATP stimulation[1]. CaCCinh-A01 (0.1/1/10 μM) reduces Calcium-dependent chloride current (38±14, 66±10, and 91±1%). ATP-induced short-circuits currents are reduced by 38±7 and 78±3% at 10 and 30 μM CaCCinh-A01, respectively.

细胞实验

Each well of a 96-well plate is washed three times with PBS (200 μL/wash), leaving 50 μL of PBS. Test compounds (including CaCCinh-A01) (0.5 μL) are added to each well at 25 μM final concentration. After 10 min, 96-well plates are transferred to a plate reader for fluorescence assay. Each well is assayed individually for TMEM16A-mediated I- influx by recording fluorescence continuously (400 ms/point) for 2 s (baseline), then 50 μL of a 140 mM I-solution containing 200 μM ATP is added.

描述

CaCCinh-A01 is an inhibitor of the calcium-activated chloride channel (CaCC, 10 μM) and TMEM16A (IC50: 2.1 μM).

储存

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

For technical support and original validation data for this product please contact
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