For Research Use Only

YM-201636

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Catalog Number: CM05993

产品信息

Catalog Number:
CM05993

CAS号:
371942-69-7

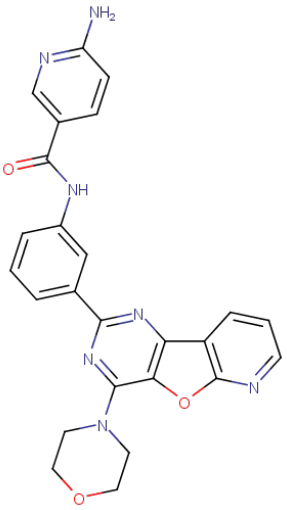
分子式:
$C_{25}H_{21}N_7O_3$

主要靶点:
Autophagy|PI3K|Influenza Virus

主要通路:
自噬|PI3K/Akt/mTOR信号通路|微生物学

分子量:
467.48

溶解度:
DMSO:33 mg/mL (70.6 mM),H2O: <1 mg/mL,Ethanol:<1 mg/mL



靶点活性

PIKfyve:33 nM

体内活性

在血清饥饿处理的NIH3T3细胞中, YM201636（0.8 μM）明显降低PtdIns(3,5)P2产量,降低达 80%。在3T3L1脂肪细胞中,YM-201636（IC50=54 nM）抑制2-脱氧葡萄糖吸收, 按160 nM剂量处理时,则能够完全抑制2-脱氧葡萄糖吸收。在MDCK细胞中,YM201636细胞间隙连接蛋白Claudin-1和Claudin-2的连续再循环,导致细胞内累积,也延迟上皮屏障的形成。

细胞实验

YM-201636 is dissolved in DMSO and diluted with DMEM and added to cells at a final concentration of 800 nM. Cells are treated with YM-201636 or a DMSO control for 2 h. For TER measurements cells are plated at confluency on Transwell permeable polyester filters (0.4 μM pore size) with surface area of 0.33 cm2. Media is changed ever 2-3 days and cells are grown for 7 days prior to TER measurements[4].

描述

YM201636 (IC50=33 nM), a specific PIKfyve inhibitor, is less effective to p110α and insensitive to Fabl, which is yeast orthologue.

储存

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