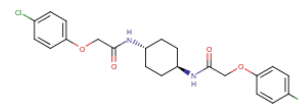


Catalog Number: CM05834

产品信息

Catalog Number:
CM05834CAS号:
1597403-47-8分子式:
 $C_{22}H_{24}Cl_2N_2O_4$ 主要靶点:
PERK|Apoptosis|Autophagy主要通路:
凋亡|自噬分子量:
451.34溶解度:
DMSO:1.11 mg/mL (2.46 mM), Sonification is recommended.

靶点活性

PERK:5 nM

体外活性

ISRIB blocks production of endogenous ATF4, whereas XBP1 mRNA splicing and XBP1s production persisted. ISRIB prevents cells from re-establishing ER homeostasis by blocking signaling through the PERK branch of the UPR, and decreases the viability of cells that are subjected to ER-stress. [1]

体内活性

ISRIB shows favorable properties in pharmacokinetic profiling experiments and good bioavailability in vivo. ISRIB (0.25 mg/kg i.p.) increases long-term memory in mice by enhancing spatial and fear-associated learning. [1]

细胞实验

U2OS cells are plated on 96-well plates and left to recover overnight. Cells are treated with either with 2 μ g/ml tunicamycin or 100 nM thapsigargin in the presence or absence of 100 nM ISRIB or with ISRIB alone for the indicated and the level of eIF2 α phosphorylation is determined[1].

描述

ISRIB (trans-isomer), the trans-isomer of ISRIB, is a effective and specific PERK inhibitor (IC50: 5 nM).

储存

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