Product Name: Ki16425
CAS No.: 355025-24-0
Cat. No.: HY-13285
MWeight: 474.96
Formula: C23H23ClN2O5S
Purity: >98%

Solubility: DMSO ≥92mg/mL Water <1.2mg/mL Ethanol ≥93mg/mL

Mechanisms:
Pathways: GPCR/G protein; Target: LPL Receptor

Biological Activity:
Ki16425 is a competitive, potent and reversible antagonist to LPA1, LPA2 and LPA3 with Ki of 0.34 μM, 6.5 μM and 0.93 μM, respectively, shows no activity at LPA4, LPA5, LPA6. IC50 value: 0.3/6.5/0.93 μM (Ki, LPA1/2/3) [1]

Target: LPA1/2/3
in vitro: Ki16425 preferentially inhibits LPA1- and LPA3-mediated responses but has only a moderate effect on LPA2. Ki16425 inhibits the LPA-induced Ca(2+) response in THP-1 cells, 3T3 fibroblasts, and A431 cells, but had only a marginal effect in PC-12 cells and HL-60 cells, which means that Ki16425 seems to be a useful tool for evaluating the involvement of specific LPA receptors in the short-term response to LPA. Ki16425 inhibits long-term DNA synthesis and cell migration as induced by LPA in Swiss 3T3 fibroblasts [1]. Ki16425 reduces the LPA-induced activation of p42/p44 mitogen activated protein kinase (MAPK), while acting as a w...

References:

Caution: Not fully tested. For research purposes only

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