Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

AM095 (free acid)

Catalog No: tcsc1129

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg

Specifications

CAS No:
1228690-36-5

Formula:
$C_{27}H_{24}N_2O_5$

Pathway:
GPCR/G Protein

Target:
LPL Receptor

Purity / Grade:
>98%

Solubility:
DMSO : 67.3 mg/mL (147.43 mM; Need ultrasonic and warming)

Observed Molecular Weight:
456.49

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Product Description

AM095 (free acid) is a potent **LPA1** receptor antagonist with **IC_{50}** values of 0.98 and 0.73 μM for recombinant human or mouse LPA1 respectively.

IC50 & Target: IC50: 0.98 μM (human LPA1), 0.73 μM (mouse LPA1)

In Vitro: AM095 inhibits the LPA-induced calcium flux of CHO cells stably transfected with human or mouse LPA1. The IC_{50} for AM095 antagonism of LPA-induced calcium flux of human or mouse LPA1-transfected CHO cells is 0.025 and 0.023 μM, respectively[1]. AM095 reduces LPA-induced vasorelaxation by appr 90% at 10 μM as compared to vehicle control[2]. AM095 inhibits LPA-driven chemotaxis of CHO cells overexpressing mouse LPA1 (IC_{50}=778 nM) and human A2058 melanoma cells (IC_{50}=233 nM)[3].

In Vivo: Pharmacological antagonism of LPA1 with AM095 significantly attenuates bleomycin-induced dermal fibrosis[1]. AM095 has high oral bioavailability and a moderate half-life and is well tolerated at the doses tested in rats and dogs after oral and intravenous dosing. AM095 dose-dependently reduces LPA-stimulated histamine release. AM095 attenuates bleomycin-induced increases in collagen, protein, and inflammatory cell infiltration in bronchalveolar lavage fluid. AM095 decreases kidney fibrosis in a mouse unilateral ureteral obstruction model[3].