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

AM679

Catalog No: tcsc0935

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1206880-66-1

Formula:
$C_{40}H_{44}N_4O_5S$

Pathway:
Immunology/Inflammation

Target:
FLAP

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
692.87

Product Description

AM679 is a potent and selective FLAP inhibitor with IC50s of 2.2 nM/0.6 nM/154 nM for FLAP binding/hLA/hWB respectively.

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IC50 value: 2.2 nM/0.6 nM/154 nM(FLAP binding/hLA/hWB) [1]

Target: FLAP

in vitro: AM679 showed excellent in vitro inhibition against FLAP. AM679 has an excellent hWB IC50 potency of 154 nM. AM679 showed an improved CYP inhibition profile (IC50 3A4 = 16.7 lM, 2C9 = 3.7 lM, 2D6 >30 lM), no time dependent inhibition against CYP3A4 (0.003 min-1 vs 0.057 min-1 for troleandomycin control 10 uM) and no CYP3A4 induction.

in vivo: AM679 was profiled in a rodent bronchoalveolar lavage (BAL) model to measure its ability to inhibit production of

leukotrienes in vivo.16 Oral administration of 39 (10 mg/kg as the sodium carboxylate salt) 4 h prior to ionophore challenge reduced LTB4 and CysLT levels in the rodent lung lavage fluid by 98% and 87%, respectively, with corresponding average rodent plasma levels of 605 nM (3 h post dose, rat blood LTB4 IC50 = 125 nM).