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

IC-87114

Catalog No: tcsc0184

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
371242-69-2

Formula:
$C_{22}H_{19}N_7O$

Pathway:
PI3K/Akt/mTOR

Target:
PI3K

Purity / Grade:
>98%

Solubility:
DMSO : 10 mg/mL (25.16 mM; Need ultrasonic)

Observed Molecular Weight:
397.43

Product Description

IC-87114 is a potent and selective **PI3Kδ** inhibitor with **IC_{50}** of 0.5 μM.

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IC50 & Target: IC50: 0.5 μM (PI3Kδ)[1]

In Vitro: IC-87114 (IC87114), an analog of the original inhibitor, is synthesized and tested for PI3Kδ selectivity relative to the other class I PI3Ks. The IC_{50} of IC87114 for PI3Kδ inhibition is 0.5 μM whereas the IC_{50} values for PI3Kα, PI3Kβ, and PI3Kγ are >100, 75, and 29 μM, respectively. Thus IC87114 is 58-fold more selective for PI3Kδ relative to PI3Kγ, and over 100-fold selective relative to PI3Kα and PI3Kβ. IC87114 selectively antagonizes PI3Kδ over at least a concentration range of 0.3-10 μM[1]. IC-87114 (10 μM) is also used to selectively inhibit PI3Kδ catalytic activity to address this question. IC87114 (10 μM) effectively inactivates Akt in macrophages after treatment for 1 hour (n=6; P[2].

In Vivo: Treatment with PD 89059 (10 mg/kg), IC-87114 (0.3 mg/kg) and BAY 11-7085 (10 mg/kg), significantly (P0.05). Of note, the observed reduction in the histopathological airway remodeling induced by PD 89059, IC-87114 and BAY 11-7085 are less effective as compared to the reduction seen with AG 1478 and SU6656[3].