



IC-87114

Catalog No: tcsc0184

Available Sizes
Size: 5mg
Size: 10mg
Size: 50mg
Size: 100mg
Specifications
CAS No: 371242-69-2
Formula: $C_{22}^{H}_{19}^{N}_{7}^{O}$
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 **PI3K6** inhibitor with IC_{50} of 0.5 μ M.



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 IC₅₀ of IC87114 for PI3Kδ inhibition is 0.5 μM whereas the IC₅₀ values for PI3K α , PI3K α , PI3K α , and PI3K α , and PI3K α , and PI3K α , and over 100-fold selective relative to PI3K α and PI3K α . IC87114 selectively antagonizes PI3K α over at least a concentration range of 0.3-10 μM^[1]. IC-87114 (10 μM) is also used to selectively inhibit PI3K α 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].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!