Web: www.taiclone.com
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# AC710

## Catalog No: tcsc3415

### Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg

### Specifications

**CAS No:**
1351522-04-7

**Formula:**
$C_{31}H_{42}N_6O_4$

**Pathway:**
Protein Tyrosine Kinase/RTK;Protein Tyrosine Kinase/RTK;Protein Tyrosine Kinase/RTK

**Target:**
FLT3;PDGFR;c-Kit

**Purity / Grade:**
>98%

**Solubility:**
DMSO : 14 mg/mL (24.88 mM; Need ultrasonic and warming)

**Observed Molecular Weight:**
562.7

## Product Description

AC710 is a potent **PDGFR** inhibitor with $\mathbf{K_d}$s of 0.6, 1.57, 1, 1.3, 1.0 nM for FLT3, CSF1R, KIT, PDGFRα and PDGFRβ, respectively.

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IC50 & Target: Kd: 0.6 nM (FLT3), 1.57 nM (CSF1R), 1 nM (KIT), 1.3 nM (PDGFRα), 1 nM (PDGFRβ)[1]

***In Vivo:*** At 0.3 mg/kg of AC710, tumor growth is temporally inhibited, and growth resumes quickly thereafter. At 3 and 30 mg/kg of AC710, tumors regress completely, and the tumor volume stays suppressed for an extended period after dosing is halted. No body weight loss is observed in animals treated with AC710 at all doses, indicating that it is well tolerated in mice at efficacious doses. AC710 exhibits a significant impact on disease in a dose-dependent fashion in a mouse collagen-induced arthritis (CIA) model, at a dose as low as 3 mg/ kg for 15 days (day 0-14). At 10 and 30 mg/kg, AC710 demonstrates equivalent or slightly better efficacy in reducing the joint swelling and inflammation than dexomethasone administered at a safe dose. AC710 is well tolerated at the tested doses[1].