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

# A 419259 (trihydrochloride)

## Catalog No: tcsc1705

### Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

### Specifications

**CAS No:**
1435934-25-0

**Formula:**
$C_{29}H_{37}Cl_3N_6O$

**Pathway:**
Protein Tyrosine Kinase/RTK

**Target:**
Src

**Purity / Grade:**
>98%

**Solubility:**
H2O : ≥ 55 mg/mL (92.91 mM)

**Alternative Names:**
RK 20449 trihydrochloride

**Observed Molecular Weight:**
592

## Product Description

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

A 419259 trihydrochloride is a broad-spectrum pyrrolo-pyrimidine inhibitor, designed to enhance selectivity towards the Src family with **$IC_{50}$** of 9 nM, Src, **Lck** and **Lyn**, respectively.

IC50 & Target: IC50: 9 nM (Src), [1]

***In Vitro:*** A 419259 Trihydrochloride is a second-generation pyrrolo-pyrimidine designed to enhance selectivity towards the Src family relative to other cytoplasmic tyrosine kinases. A-419259 inhibits K-562 cells with an $IC_{50}$ between 0.1 and 0.3 μM, and Meg-01 proliferation with an $IC_{50}$ of approximately 0.1 μM. A-419259 also potently induces apoptosis in K-562 cells beginning at 0.1 μM and increasing in a dose-dependent manner. PP2 inhibits Src kinase autophosphorylation in both $Ph^+$ cell lines (K-562 and Meg-01) with an $IC_{50}$ between 3 and 10 μM, while A-419259 blocks kinase activation between 0.1 and 0.3 μM. A-419259 strongly inhibits DAGM/Bcr-Abl cell proliferation in the absence of IL-3 with an $IC_{50}$ between 0.1 and 0.3 μM[1]. A-419259 is a broad-spectrum pyrrolo-pyrimidine inhibitor, and blocks proliferation and induces apoptosis in CML cell lines. A-419259 inhibits overall SFK activity in K562 and other CML cell lines with an $IC_{50}$ value of 0.1-0.3 μM[2].