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

A 419259

Catalog No: tcsc1704

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
364042-47-7

Formula:
$C_{29}H_{34}N_6O$

Pathway:
Protein Tyrosine Kinase/RTK

Target:
Src

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
RK-20449

Observed Molecular Weight:
482.62

Product Description

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A 419259 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 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].