

# 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:**

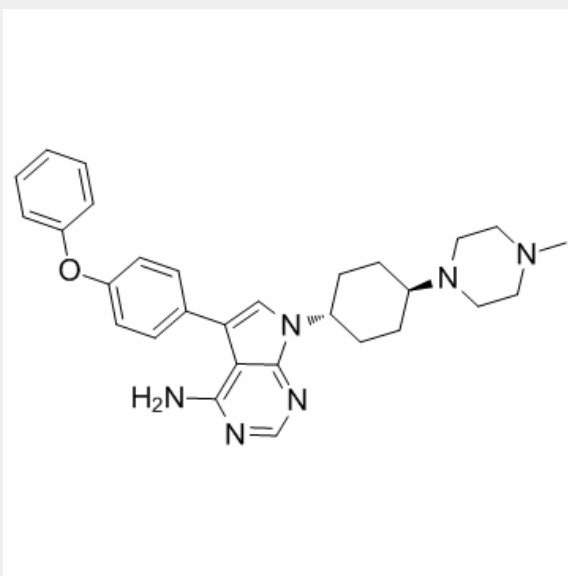
482.62

## Product Description

A 419259 is a broad-spectrum pyrrolo-pyrimidine inhibitor, designed to enhance selectivity towards the Src family with **IC<sub>50</sub>** 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<sub>50</sub> between 0.1 and 0.3 μM, and Meg-01 proliferation with an IC<sub>50</sub> 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<sup>+</sup> cell lines (K-562 and Meg-01) with an IC<sub>50</sub> 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<sub>50</sub> between 0.1 and 0.3 μM<sup>[1]</sup>. 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<sub>50</sub> value of 0.1-0.3 μM<sup>[2]</sup>.



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