

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:

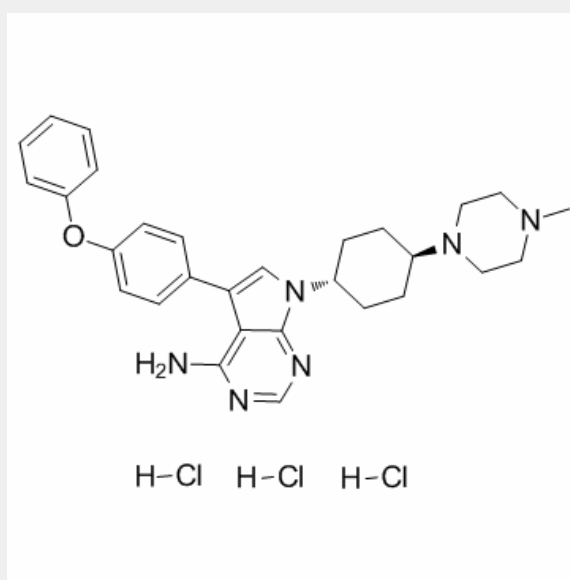
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Product Description

A 419259 trihydrochloride is a broad-spectrum pyrrolo-pyrimidine inhibitor, designed to enhance selectivity towards the Src family with **IC₅₀** 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 IC₅₀ between 0.1 and 0.3 μM, and Meg-01 proliferation with an IC₅₀ 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 IC₅₀ 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 IC₅₀ 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 IC₅₀ value of 0.1-0.3 μM^[2].



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