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

AZD9056 (hydrochloride)

Catalog No: tcsc6172

Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
345303-91-5

Formula:
$C_{24}H_{36}Cl_2N_2O_2$

Pathway:
Membrane Transporter/Ion Channel

Target:
P2X Receptor

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 34 mg/mL (74.65 mM)

Observed Molecular Weight:
455.46

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Product Description

AZD9056 is a selective orally active inhibitor of **P2X7** which plays a significant role in inflammation and pain-causing diseases.

In Vitro: The antagonist AZD9056 blocks P2X7 receptors with an IC_{50} of 11.2 nM in HEK-hP2X7 cell line, indicating a high selectivity of the antagonist for the P2X7 receptor. The P2X7-receptor antagonist AZD9056 has a clear inhibitory effect (IC_{50}=1-3 μM) in mouse microglia BV2 cells[1]. AZD9056 is an inhibitor of BCRP and weakly inhibits BCRP-mediated transport of methotrexate (IC_{50}=92 μM)[2]
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In Vivo: Treatment with AZD9056 exerts pain-relieving and anti-inflammatory effects. The upregulated expression of interleukin (IL)-1β, IL-6, tumor necrosis factor-α (TNF-α), matrix metalloproteinase-13 (MMP-13), substance P (SP) and prostaglandin E2 (PGE2) which is induced by MIA in cartilage tissues is reversed by AZD9056[3].