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

A 839977

Catalog No: tcsc1691

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
870061-27-1

Formula:
$C_{19}H_{14}Cl_2N_6O$

Pathway:
Membrane Transporter/Ion Channel

Target:
P2X Receptor

Purity / Grade:
>98%

Solubility:
H2O :

Observed Molecular Weight:
413.26

Product Description

A-839977 is a novel and selective P2X7 antagonist; blocks BzATP-evoked calcium influx at recombinant human, rat and mouse P2X7 receptors (IC50 values are 20, 42 and 150 nM respectively).

IC50 Value:

Target: P2X7

in vitro: A-839977 potently (IC50=20-150 nM) blocked BzATP-evoked calcium influx at recombinant human, rat and mouse P2X7 receptors. A-839977 also potently blocked agonist-evoked YO-PRO uptake and IL-1beta release from differentiated human THP-1 cells [1].

in vivo: Systemic administration of A-839977 dose-dependently reduced thermal hyperalgesia produced by intraplantar administration of complete Freund\'s adjuvant (CFA) (ED50=100 micromol/kg, i.p.) in rats. A-839977 also produced robust antihyperalgesia in the CFA model of inflammatory pain in wild-type mice (ED50=40 micromol/kg, i.p.), but the antihyperalgesic effects of A-839977 were completely absent in IL-1alphabeta knockout mice [1].