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

CGS 15435

Catalog No: tcsc0018435

Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Specifications

CAS No:
95853-92-2

Formula:
$C_{20}H_{21}ClN_2O_2$

Pathway:
GPCR/G Protein

Target:
Prostaglandin Receptor

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
356.85

Product Description

CGS 15435, a potent thromboxane (**TxA_2**) synthetase inhibitor with an **IC_{50}** of 1 nM, has a selectivity for Tx synthetase 100000-fold greater than that for cyclooxygenase, PGI_2 synthetase and lipoxygenase enzymes.

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

IC50 & Target: IC50: 1 nM (TxA_2 synthetase), 60 μM (5-Lipoxygenase), 90 μM (PGI_2 synthetase), 1200 μM (Cyclooxygenase)[1]

In Vitro: CGS 15435 is a highly specific Tx synthetase inhibitor. CGS 15435 is only weakly effective as an inhibitor of PGE_2 (Cyclooxygenase, IC_{50}=1200 μM), prostacyclin (PGI_2 synthetase, IC_{50}=90 μM) or 5-Lipoxygenase (IC_{50}=60 μM) product formation[1].

In Vivo: CGS 15435 has a long duration of action, since the increases in the plasma levels of TxB_2 are prevented even at 24 h after CGS 15435 administration. CGS 15435 significantly inhibits TxB_2 formation 4, 6, 12 and 24 h after dosing. Administration of CGS 15435 0.25 or 24 h prior to Arachidonic acid (AA) produced no increase in TxB_2 in the surviving animals (4/4 and 5/6, respectively). The final TxB_2 levels in the CGS15435A (0.25 and 24 h pretreatment) groups are significantly lower (P[1].