Web: www.taiclone.com
Tel: +886-2-2735-9682
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Timegadine

Catalog No: tcsc0018104

Available Sizes

Size: 1mg

Size: 5mg

Specifications

CAS No:
71079-19-1

Formula:
$C_{20}H_{23}N_5S$

Pathway:
Immunology/Inflammation

Target:
COX

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
SR1368

Observed Molecular Weight:
365.5

Product Description

Timegadine, a new antiinflammatory agent, is found to be a potent, competitive inhibitor of **cyclo-oxygenase** (**COX**) and **lipo-oxygenase**, with **IC_{50}**s ranging from 5 nM (washed rabbit platelets) to 20 μM (rat brain) for COX and 100 μM for lipo-oxygenase

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both in the cytosol fraction of horse platelet homogenates, and in washed rabbit platelets.

IC50 & Target: prostaglandin synthetase, COX, lipo-oxygenase[1]

In Vitro: Timegadine, a new antiinflammatory agent, is found to be a potent, competitive inhibitor of of COX and lipo-oxygenase, with IC_{50}s ranging from 5 nM (washed rabbit platelets) to 20 μM (rat brain) for COX and 100 μM for lipo-oxygenase both in the cytosol fraction of horse platelet homogenates, and in washed rabbit platelets[2].

In Vivo: Timegadine, a new antiinflammatory agent, is found to be a potent, competitive inhibitor of prostaglandin synthetase which also inhibits cyclo-oxygenase (COX) and lipoxygenase. Daily oral doses of 10 to 30 mg/kg of Timegadine significantly inhibit both the primary and secondary lesions of adjuvant arthritis when the treatment is initiated on the day of the disease induction and continues for 28 days. Timegadine is able specifically to prevent the development of the swelling of the non-injected paw until 28 days after the adjuvant injection when administered for 5 days prior to and 5 days after the induction of the disease, in analogy with the effect of cyclophosphamide[1].