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

Valdecoxib

Catalog No: tcsc1674

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
181695-72-7

Formula:
$C_{16}H_{14}N_2O_3S$

Pathway:
Immunology/Inflammation

Target:
COX

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 34 mg/mL (108.16 mM)

Alternative Names:
SC 65872

Observed Molecular Weight:
314.36

Product Description

Valdecoxib is a highly potent and selective inhibitor of **COX-2**, with **IC_{50}**s of 5 nM and 140 μM for COX-2 and COX-1, respeceively. Valdecoxib can be used in the research of arthritis and pain.

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IC50 & Target: IC50: 5 nM (COX-2), 140 μM (COX-1)[1]

In Vitro: Valdecoxib (Compound 2) is a highly potent, selective and orally active inhibitor of COX-2, with IC_{50}s of 5 nM and 140 μM for COX-2 and COX-1, respeceively[1]. Valdecoxib (10, 100 μM) inhibits LPS-induced proliferation of endothelial cells and bFGF secretion in a dose-dependent manner. Valdecoxib stimulates VEGF formation via HMEC-1 under inflammatory conditions[2].

In Vivo: Valdecoxib (Compound 2) shows potent oral activity in an acute antiinflammatory assay (rat carrageenan foot pad edema; ED_{50} = 10.2 ± 1.4 mg/kg). Valdecoxib also has chronic antiinflammatory activity in the rat adjuvant arthritis model, with an ED_{50} of 0.032 ± 0.002 mg/kg/day[1]. Valdecoxib (10 mg/kg, i.p.) significantly attenuates the behavioral and biochemical (oxidative damage) alterations in chronic-stressed mice[3].