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

Oxaprozin

Catalog No: tcsc7975

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
21256-18-8

Formula:
$C_{18}H_{15}NO_3$

Pathway:
Immunology/Inflammation;NF-κB

Target:
COX;NF-κB

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 100 mg/mL (340.92 mM)

Alternative Names:
Oxaprozinum;Wy21743

Observed Molecular Weight:
293.32

Product Description

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Oxaprozin is an inhibitor of both **COX-1** and **COX-2** with **IC_{50}**s of 2.2 μM and 36 μM for human platelet COX-1 and IL-1-stimulated human synovial cell COX-2, respectively. Oxaprozin also inhibits the activation of **NF-κB**.

IC50 & Target: IC50: 2.2 μM (COX-1), 36 μM (COX-2)，NF-κB[1]

In Vitro: Oxaprozin induces apoptosis in a dose-dependent manner. Oxaprozin increases caspase-3 activity in the activated but not in the resting condition. NF-κB activation is inhibited by 50 μM Oxaprozin. Oxaprozin inhibits activation of the IKK system induced by the reagent IκBα[1]. Oxaprozin dose dependently increase CD40L-treated monocyte apoptosis. 100 μM Oxaprozin induces the strongest proapoptotic effect. 100 μM Oxaprozin significantly increases CD40L-treated monocyte apoptosis. Oxaprozin treatment inhibits CD40L-induced Akt and NF-κB (p65) phosphorylation[2].