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

Iguratimod

Catalog No: tcsc0617

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
123663-49-0

Formula:
$C_{17}H_{14}N_2O_6S$

Pathway:
Immunology/Inflammation

Target:
COX

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
T614

Observed Molecular Weight:
374.37

Product Description

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Iguratimod is an antirheumatic agent, acts as an inhibitor of **COX-2**, with an **IC_{50}** of 20 μM (7.7 μg/mL), but shows no effect on COX-1. Iguratimod also inhibits macrophage migration inhibitory factor (**MIF**) with an **IC_{50}** of 6.81 μM.

IC50 & Target: IC50: 20 μM (COX-2)[1], 6.81 μM (MIF)[3]

In Vitro: Iguratimod (T-614) is an antirheumatic agent, acts as an inhibitor of COX-2, with an IC_{50} of 20 μM (7.7 μg/mL), but shows no effect on COX-1. Iguratimod (0.1, 1, 10 μg/mL) inhibits bradykinin-stimulated PGE2 release from fibroblasts. Iguratimod suppresses the COX activity from bradykinin stimulated fibroblasts in a concentration-dependent manner, with an IC_{50} of 48 μg/mL. Iguratimod (10 and 30 μg/mL) also dose-dependently inhibits COX-2 mRNA levels[1]. In addition, Iguratimod potently inhibits macrophage migration inhibitory factor (MIF) with an IC_{50} of 6.81 μM. Iguratimod is synergetic with glucocorticoids in vitro[3].

In Vivo: Iguratimod (5 or 20 mg/kg) shows analgesic effect, significantly improves the pain withdrawal threshold of the left hind paw in dose-dependent manner in rats. Iguratimod (5 or 20 mg/kg) reduces the elevation of pERK1/2 and c-Fos in the spinal cord induced by cancer cell inoculation. Iguratimod also dose-dependently decreases the IL-6 levels in rats. In Iguratimod-treated rats, the activity of osteoclasts is weaker than the control group[2]. Iguratimod (20 mg/kg i.p.) shows significantly increased survival in BALB/c mice that are vulnerable to endotoxemia, and attenuates TNFα release measured in serum isolated 90 min post-LPS administration in wild-type C57BL/6 mice[3].