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

ISO-1

Catalog No: tcsc3224

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
478336-92-4

Formula:
$C_{12}H_{13}NO_4$

Pathway:
Others

Target:
Others

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 36 mg/mL (153.04 mM)

Alternative Names:
MIF Antagonist

Observed Molecular Weight:
235.24

Product Description

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ISO-1 is an inhibitor of MIF d-dopachrome tautomerase activity with an IC50 of about 7 uM.

IC50 value: 7 uM [1]

Target: MIF inhibitor

in vitro: ISO-1 inhibited MIF tautomerase activity in a dose-dependent manner with an IC50 of about 7 μM, but the non-hydroxylated phenyl analog (compound 2) was 10–15 times less potent. In accordance with this potential mechanism(s), treatment of the transfected cells with ISO-1 inhibited the release of arachidonic acid in a dose-dependent manner [1]. ISO-1 significantly inhibits the cytokine activity in vitro. Moreover, ISO-1 inhibits tumor necrosis factor release from macrophages isolated from LPStreated wild type mice but has no effect on cytokine release from MIFdeficient macrophages [2].

in vivo: Administration of ISO-1 resulted in a significant reduction in implant size and vascularity (as assessed by Flk1 mRNA expression) which was not associated with an alteration in the reproductive cycle in mice [3].