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

IKarisoside A

Catalog No: tcsc3692

Available Sizes

Size: 5mg

Specifications

CAS No:
55395-07-8

Formula:
$C_{26}H_{28}O_{10}$

Pathway:
Others

Target:
Others

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
Icarisoside-A;Baohuoside II

Observed Molecular Weight:
500.49

Product Description

IKarisoside A(Icarisoside-A) is a natural compound isolated from Epimedium koreanum (Berberidaceae); has anti-inflammatory properties.

IC50 value:

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Target:

in vitro: Ikarisoside A inhibited the expression of LPS-stimulated inducible nitric oxide synthase (iNOS) and the production of nitric oxide (NO) in LPS-stimulated RAW 264.7 cells and mouse bone marrow-derived macrophages (BMMs) in a concentration-dependent manner. In addition, Ikarisoside A reduced the release of pro-inflammatory cytokines, such as tumor necrosis factor-alpha (TNF-alpha) and interleukin-1 beta (IL-1 beta). Furthermore, Ikarisoside A inhibited the activity of p38 kinase and nuclear factor-kappaB (NF-kappaB) [1]. Ikarisoside A is a potent inhibitor of osteoclastogenesis in RANKL-stimulated RAW 264.7 cells as well as in bone marrow-derived macrophages.The inhibitory effect of Ikarisoside A resulted in decrease of osteoclast-specific genes like matrix metalloproteinase 9 (MMP9), tartrate-resistant acid phosphatase (TRAP), receptor activator of NF-kappaB (RANK), and cathepsin K. Moreover, Ikarisoside A blocked the resorbing capacity of RAW 264.7 cells on calcium phosphate-coated plates. Ikarisoside A also has inhibitory effects on the RANKL-mediated activation of NF-kappaB, JNK, and Akt [2].