

Dioscin

Catalog No: tcsc3104



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

19057-60-4

Formula:

$C_{45}H_{72}O_{16}$

Pathway:

Autophagy

Target:

Autophagy

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

Collettiside III;CCRIS 4123

Observed Molecular Weight:

869.04

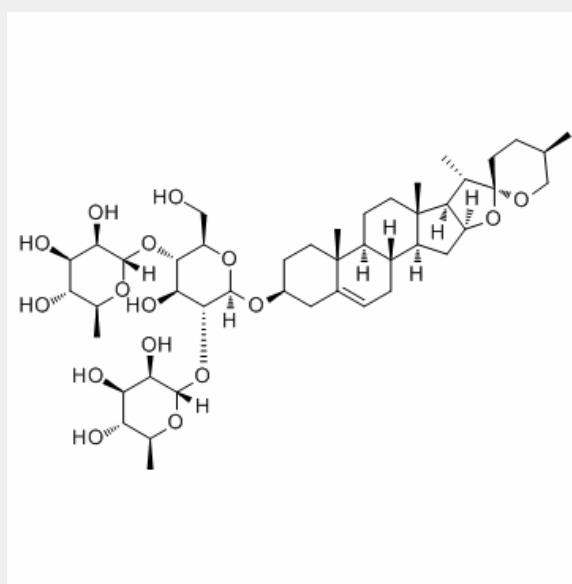
Product Description

Dioscin(CCRIS 4123; Collettiside III) is a natural steroid saponin derived from several plants, showing potent anti-cancer effect against a variety of tumor cell lines.

IC50 value:

Target: Anticancer agent

in vitro: dioscin (1, 2 and 4 $\mu\text{mol/L}$) could significantly inhibit the viability of LNCaP cells in a time- and concentration-dependent manner. Flow cytometry revealed that the apoptosis rate was increased after treatment of LNCaP cells with dioscin for 24 h, indicating that apoptosis was an important mechanism by which dioscin inhibited cancer [1]. dioscin abrogated AKT phosphorylation, which subsequently impaired RANKL-induced nuclear factor-kappaB (NF- κ B) signaling pathway and inhibited NFATc1 transcriptional activity. Moreover, in vivo studies further verified the bone protection activity of dioscin in osteolytic animal model [2]. Dioscin reduced cell death and lactate dehydrogenase (LDH) release in cells subjected to I/R. I/R induced apoptosis and cytochrome c release from mitochondria to the cytosol and this was prevented by dioscin. In support, dioscin decreased Bax but increased Bcl-2 mRNA expression. Dioscin prevented I/R induced dissipation of $\Delta\Psi_m$ [3].



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