

# Hederagenin

Catalog No: tcsc5454



## Available Sizes

**Size:** 5mg

**Size:** 10mg



## Specifications

**CAS No:**

465-99-6

**Formula:**

$C_{30}H_{48}O_4$

**Pathway:**

Others

**Target:**

Others

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

472.7

## Product Description

Hederagenin is a triterpenoid saponin. It can inhibit LPS-stimulated expression of iNOS, COX-2, and NF-κB

Hederagenin can Exhibits multiple pharmacological activities in the treatment of hyperlipidemia, antilipid peroxidation, antiplatelet aggregation, liver protection, antidepression, anti-inflammation.[1]

In vitro:1) Hederagenin can correct the imbalance of endothelial function by inhibiting the release of large amounts of iNOS and

increasing eNOS contents and inhibits the IKK $\beta$ /NF- $\kappa$ B signaling pathway to reduce the release of IL-6, IFN- $\gamma$ , TNF- $\alpha$ , and other inflammatory factors. [1]

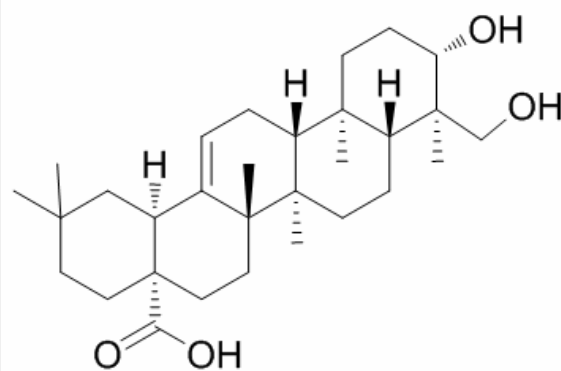
2) The EC50 of hederagenin is  $39 \pm 6 \mu\text{M}$  in A549 cancer cell line, but it's inactive for DLD-1 cells. [2]

3) Hederagenin inhibited LPS-induced production of NO, PGE2 and cytokines in cells.[3]

4) Hederagenin had an anti-edema effect on the CA-induced mouse hind paw edema assay. [3]

5) Hederagenin inhibited the CA-induced increase in skin thicknesses. [3]

In vivo: The rats in the hederagenin group were administered hederagenin at 20 mg/kg/d via gavage.(More details please refer to the protocol below). In AS rat models induced by a high-lipid diet plus VD3, hederagenin can effectively reduce serum lipid, ALT, and AST levels, in addition to improving liver function, relieving high blood coagulation, and slowing blood flow and stasis by improving blood rheology. [1]



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!