

Hinokitiol

Catalog No: tcsc7724



Available Sizes

Size: 50mg

Size: 100mg



Specifications

CAS No:

499-44-5

Formula:

$C_{10}H_{12}O_2$

Pathway:

Epigenetics;NF-κB

Target:

DNA Methyltransferase;Keap1-Nrf2

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

β-Thujaplicin

Observed Molecular Weight:

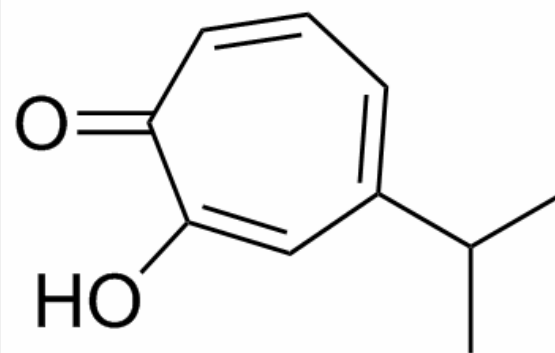
164.2

Product Description

Hinokitiol is a component of essential oils isolated from *Chymacyparis obtusa*, reduces **Nrf2** expression, and decreases **DNMT1** and UHRF1 mRNA and protein expression, with anti-infective, anti-oxidative, and anti-tumor activities.

IC50 & Target: Nrf2^[1], DNMT1^[2]

In Vitro: In U87MG and T98G glioma cell lines, hinokitiol demonstrates a dose-dependent decrease in viability, with IC₅₀ values of 316.5 ± 35.5 and 152.5 ± 25.3 μM, respectively. Hinokitiol represses ALDH activity and self-renewal ability in glioma stem cells, and inhibits in vitro oncogenicity. Hinokitiol also reduces Nrf2 expression in glioma stem cells in a dose-dependent manner^[1]. Hinokitiol (0-100 μM) inhibits colon cancer cell growth in a dose- and time-dependent manner. Hinokitiol (5, 10 μM) decreases DNMT1 and UHRF1 mRNA and protein expression, and increases TET1 expression via enhancement of 5hmC level in HCT-116 cells. Furthermore, hinokitiol reduces methylation status and restores mRNA expression of *MGMT*, *CHST10*, and *BTG4* genes^[2].



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