

# Calycosin

Catalog No: tcsc3715



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg



## Specifications

**CAS No:**

20575-57-9

**Formula:**

$C_{16}H_{12}O_5$

**Pathway:**

Others

**Target:**

Others

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 28$  mg/mL (98.50 mM)

**Alternative Names:**

Cyclosin

**Observed Molecular Weight:**

284.26

## Product Description

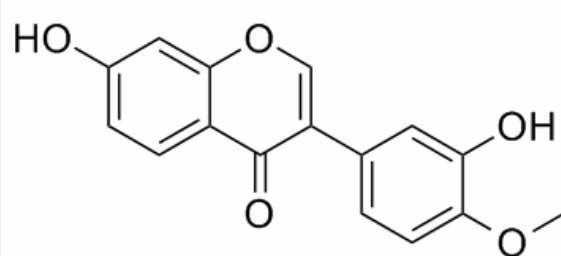
Calycosin (Cyclosin) is a natural active compound with anti-oxidative and anti-inflammation activity.

IC50 value:

Target:

in vitro: calycosin had obvious anti-proliferation effects on SKOV3 cells in a dose- and time-dependent manner. calycosin up-regulated the Bax/Bcl-2 ratio and cleaved caspase-3, cleaved caspase-9 expression in a dose-dependent manner. In summary, calycosin might exert anti-growth and induce-apoptosis activity against ovarian cancer SKOV3 cells through activating caspases and Bcl-2 family proteins, therefore presenting as a promising therapeutic agent for the treatment of ovarian cancer [1]. Both calycosin and genistein inhibited proliferation and induced apoptosis in MCF-7 breast cancer cells, especially after treatment with calycosin. Treatment of MCF-7 cells with calycosin or genistein resulted in decreased phosphorylation of Akt, and decreased expression of its downstream target, HOTAIR [2]. incubation of calycosin resulted in enhanced expression ER $\beta$  in MCF-7 and T-47D cells, rather than MDA-231 and MDA-435 cells. Moreover, with the upregulation of ER $\beta$ , successive changes in downstream signaling pathways were found, including inactivation of insulin-like growth factor 1 receptor (IGF-1R), then stimulation of p38 MAPK and suppression of the serine/threonine kinase (Akt), and finally poly(ADP-ribose) polymerase 1 (PARP-1) cleavage [3].

in vivo: calycosin stimulated a dramatic increase in uterine weight and downregulated the level of ER $\alpha$  protein in OVX mice [4].



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