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

Arctigenin

Catalog No: tcsc2797

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
7770-78-7

Formula:
$C_{21}H_{24}O_6$

Pathway:
Metabolic Enzyme/Protease;Autophagy

Target:
MMP;Autophagy

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 125 mg/mL (335.65 mM)

Alternative Names:
(-)-Arctigenin

Observed Molecular Weight:
372.41

Product Description

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Arctigenin is a lignan found in certain plants of the Asteraceae; it has shown antiviral and anticancer effects in glass; it is the aglycone of arctiin.

IC50 value:

Target: anticancer agent

Arctiin and its aglucone, arctigenin from the fruits of Arctium lappa L. showed potent in vitro antiviral activities against influenza A virus (A/NWS/33, H1N1) (IFV). Based on the data from time-of-addition experiments and on release tests of progeny viruses, arctigenin was assumed to interfere with early event(s) of viral replication after viral penetration into cells, and to suppress the release of progeny viruses from the host cells [1]. arctigenin treatment reduced viability of bladder cancer T24 cells in a dose- and time-dependent manner after treatment with arctigenin (10, 20, 40, 80, and 100 μmol/L) for 24 hr and 48 hr. Arctigenin treatment clearly arrested tumor cells in the G1 phase of the cell cycle. At the molecular level, arctigenin treatment decreased cyclin D1 expression, whereas CDK4 and CDK6 expression levels were unaffected. Moreover, arctigenin selectively altered the phosphorylation of members of the MAPK superfamily, decreasing phosphorylation of ERK1/2 and activated phosphorylation of p38 significantly in a dose-dependent manner [2]. The use of arctigenin has been shown to be effective in a mouse model of Japanese encephalitis [3].