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

Taxifolin

Catalog No: tcsc3365

Available Sizes

Size: 50mg

Size: 100mg

Specifications

CAS No:
480-18-2

Formula:
$C_{15}H_{12}O_7$

Pathway:
Autophagy;Metabolic Enzyme/Protease

Target:
Autophagy;Tyrosinase

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 26 mg/mL (85.46 mM)

Alternative Names:
(+)-Dihydroquercetin; (+)-Taxifolin

Observed Molecular Weight:
304.25

Product Description

Taxifolin exhibits important anti-**tyrosinase** activity. Taxifolin exhibits significant inhibitory activity against **collagenase** with an **IC_{50}** value of 193.3 μM.

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IC50 & Target: IC50: 193.3 μM (Collagenase)[1]

Tyrosinase[1]

In Vitro: This is confirmed by the investigation of pure Taxifolin and (+)-Catechin against collagenase activity. Taxifolin exhibits significant inhibitory activity with an IC_{50} value of 193.3 μM while (+)-Catechin is not active[1]. Taxifolin is a ubiquitous bioactive constituent of foods and herbs. Taxifolin (dihydroquercetin) is a bioactive flavanonol commonly found in grapes, citrus fruits, onions, green tea, olive oil, wine, and many other foods, as well as several herbs (such as milk thistle, French maritime bark, Douglas fir bark, and Smilacis Glabrae Rhizoma)[2].

In Vivo: Taxifolin may be easily metabolized and that its metabolites are the prevalent form in vivo, although limited information is available on metabolism of Taxifolin in vivo[2].