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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

2,2′-Dihydroxychalcone

Cat. No.: HY-W154265

CAS No.: 15131-80-3

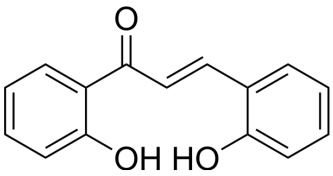
Molecular Formula: $C_{15}H_{12}O_3$

Molecular Weight: 240.25

Target: Glutathione S-transferase; Apoptosis

Pathway: Metabolic Enzyme/Protease; Apoptosis

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

2,2′-Dihydroxychalcone, a flavonoid, is a glutathione S-transferase (GST) inhibitor with an IC_{50} of 28.9 μM in human colon cancer cells. 2,2′-Dihydroxychalcone induces cell cycle arrest and apoptosis in prostate cancer cells. 2,2′-Dihydroxychalcone has anticancer and anti-inflammatory properties[1][2].

In Vitro

2,2′-Dihydroxychalcone (1-50 μM; 72 h) causes a dose-dependent reduction in viability, a concomitant increase in apoptosis in PC3 cells at 72 h, and a decrease in clonogenic survival at 24 h treatment[1].

2,2′-Dihydroxychalcone (15 μM; 6-48 h) markedly decreases the protein levels of Cyclin A and Cyclin B1, cdc2 and PIK1[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	PC3 cells
Concentration:	1 μM, 5 μM, 15 μM, 25 μM, 50 μM
Incubation Time:	72 h
Result:	Decreaseed PC3 cell viability and inhibited clonogenic survival.

Apoptosis Analysis[1]

Cell Line:	PC3 cells
Concentration:	1 μM, 5 μM, 15 μM, 25 μM, 50 μM
Incubation Time:	72 h
Result:	Induced apoptosis in PC3 cells.

Western Blot Analysis[1]

Cell Line:	PC3 cells
Concentration:	15 μM
Incubation Time:	6 h, 12 h, 24 h, 48 h

Result:	Induced cell cycle arrest in PC3 cells.

REFERENCES

[1]. Ahmed Q Haddad, et al. Antiproliferative mechanisms of the flavonoids 2,2'-dihydroxychalcone and fisetin in human prostate cancer cells. Nutr Cancer. 2010;62(5):668-81.

[2]. Kenneth Goh, et al. 2,2'-Dihydroxychalcone, a glutathione transferase inhibitor, sensitises human colon adenocarcinoma cells to chlorambucil and melphalan, but not to actinomycin D. Mol Med Rep. 2008 Jul-Aug;1(4):575-9.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA