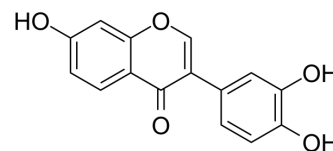


7,3',4'-Trihydroxyisoflavone

Cat. No.:	HY-124953
CAS No.:	485-63-2
Molecular Formula:	C ₁₅ H ₁₀ O ₅
Molecular Weight:	270.24
Target:	MAP3K; Apoptosis
Pathway:	MAPK/ERK Pathway; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	7,3',4'-Trihydroxyisoflavone, a major metabolite of Daidzein, is an ATP-competitive inhibitor of Cot (Tpl2/MAP3K8) and MKK4. 7,3',4'-Trihydroxyisoflavone has anticancer, anti-angiogenic, chemoprotective, and free radical scavenging activities ^{[1][2]} .
In Vitro	7,3',4'-Trihydroxyisoflavone triggers cell cycle arrest at the G1 phase and displays an anti-proliferative effect against EGF receptor-positive skin cancer ^[1] . 7,3',4'-Trihydroxyisoflavone also significantly inhibits UVB-induced COX-2 expression by suppressing the NF- κ B transcription activity in mouse skin epidermal JB6 P ⁺ cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In a mouse skin tumorigenesis model, 7,3',4'-Trihydroxyisoflavone strongly suppresses the incidence, multiplicity, and volume of UVB-induced mouse skin tumors. Consistent with the tumor data, 7,3',4'-Trihydroxyisoflavone clearly attenuates UVB-induced COX-2 expression in hairless mouse skin ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yu-Li Lo, et al. 7,3',4'-Trihydroxyisoflavone modulates multidrug resistance transporters and induces apoptosis via production of reactive oxygen species. *Toxicology*. 2012 Dec 16;302(2-3):221-32.

[2]. Dong Eun Lee, et al. 7,3',4'-Trihydroxyisoflavone, a metabolite of the soy isoflavone daidzein, suppresses ultraviolet B-induced skin cancer by targeting Cot and MKK4. *J Biol Chem*. 2011 Apr 22;286(16):14246-56.

Caution: Product has not been fully validated for medical applications. For research use only.

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