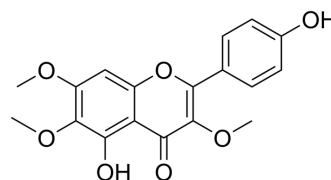


Penduletin

Cat. No.:	HY-N3096
CAS No.:	569-80-2
Molecular Formula:	C ₁₈ H ₁₆ O ₇
Molecular Weight:	344.32
Target:	Apoptosis; Reactive Oxygen Species
Pathway:	Apoptosis; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Penduletin is a flavone, that can be isolated from <i>Brickelia pendula</i> and <i>Vitex negundo</i> . Penduletin shows anticancer activity. Penduletin induces apoptosis in the cancer cells through ROS generation ^{[1][2]} .
In Vitro	Penduletin (0-100 µg/mL, 48 h) shows antiproliferative activity against HepG2 and MCF-7 cell lines, with IC ₅₀ values of 25.8, and 6.4 µM, respectively ^[1] . Penduletin exhibits an enhanced ability to induce the cleavage of procaspase-3 in HepG2 and both procaspase-3 and procaspase-8 in MCF-7 cells line ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Flores S E, et al. The structure of pendulin and penduletin: a new flavonol glucoside isolated from *brickelia pendula*[J]. *Tetrahedron*, 1958, 2(3-4):308-315.
- [2]. Vo GV, et al. In silico and in vitro studies on the anti-cancer activity of artemetin, vitexicarpin and penduletin compounds from *Vitex negundo*. *Saudi Pharm J*. 2022 Sep;30(9):1301-1314.

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