Patuletin

Cat. No.: HY-N12503

CAS No.: 519-96-0

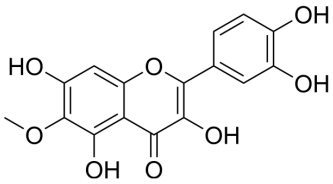
Molecular Formula: $C_{16}H_{12}O_8$

Molecular Weight: 332.26

Target: Apoptosis; Caspase

Pathway: Apoptosis

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



BIOLOGICAL ACTIVITY

Description	Patuletin is a flavonol, that can be isolated from the flowers of Tagetes patula. Patuletin shows anti-proliferative activity against cancer cells. Patuletin causes significant nuclear fragmentation and has a great capacity to induce caspase-3 activation[1][2].
IC_{50} & Target	Caspase 3
In Vitro	Patuletin (0-100 μg/mL, 24 h) shows anti-proliferative activity against cancer cells[2]. Patuletin induces apoptosis in the CaSki, MDA-MB-231, and SK-Lu-1 cells[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[2]

Cell Line:	CaSki, MDA-MB-231 and SK-Lu-1
Concentration:	6, 12, 25, 50 and 100 μg/mL
Incubation Time:	24 h
Result:	Showed a dose-dependent proliferation inhibition, with IC_{50} values of 37, 86, and 18 μg/mL for CaSki, MDA-MB-231 and SK-Lu-1 cells, respectively.

REFERENCES

[1]. Zane A , et al. Flavonols in Spinach Leaves[J]. Journal of Organic Chemistry, 1961, 26(11).

[2]. Alvarado-Sansininea JJ, et al. Quercetagetin and Patuletin: Antiproliferative, Necrotic and Apoptotic Activity in Tumor Cell Lines. Molecules. 2018 Oct 9;23(10):2579.

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

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