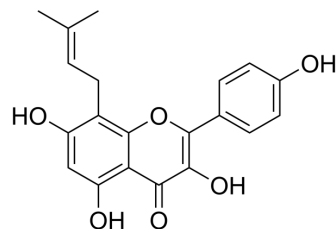


Desmethylicaritin

Cat. No.:	HY-N2785
CAS No.:	28610-31-3
Molecular Formula:	C ₂₀ H ₁₈ O ₆
Molecular Weight:	354.35
Target:	Wnt
Pathway:	Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Desmethylicaritin is a phytoestrogenic molecule, has inducible effect on directional differentiation of embryonic stem cells into cardiomyocytes. Desmethylicaritin also suppresses adipogenesis via Wnt/ β -catenin signaling pathway ^{[1][2]} .
In Vitro	<p>Desmethylicaritin is a bioactive metabolite of Epimedium flavonoids in serum^[1].</p> <p>Desmethylicaritin (0.1, 1, and 10 μM; 48 h) suppresses the adipogenesis and inhibited clonal expansion during adipogenesis in 3T3-L1 cells in a dose-dependent manner^[1].</p> <p>Desmethylicaritin (10 μM; 48 h) does not affect CCAAT/enhancer binding protein δ and β mRNA expression, but decreases the mRNA expression of CCAAT/enhancer binding protein α, peroxisome proliferator-activated receptor γ, adipocyte lipid-binding protein and lipoprotein lipase^[1].</p> <p>Desmethylicaritin (10 μM; 2, 4, 6, and 10 d) increases the protein expression of β-catenin both in the cytoplasm and nuclei and immunofluorescence results confirmed that desmethylicaritin increased nuclear translocation of β-catenin^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Wang XL, et al. Phytoestrogenic molecule desmethylicaritin suppressed adipogenesis via Wnt/ β -catenin signaling pathway. *Eur J Pharmacol.* 2013 Aug 15;714(1-3):254-60.
- [2]. Zhu DY, et al. Inducible effects of icariin, icaritin, and desmethylicaritin on directional differentiation of embryonic stem cells into cardiomyocytes in vitro. *Acta Pharmacol Sin.* 2005 Apr;26(4):477-85.

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

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