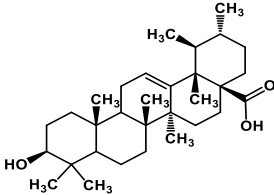


Ursolic acid

Name of the Phytochemical	Ursolic acid
Chemical Structure	
Botanical Source	Oscimum sanctum
CAS Number	77-52-1
Functional Activity	<ul style="list-style-type: none"> • Demonstrate anti-angiogenic and anti-proliferative properties. • Exerts anti-tumor effects and is an effective compound for <u>cancer</u> prevention and therapy.
Yet to correct	
Key References	<ol style="list-style-type: none"> 1. <u>Ursolic acid, a naturally occurring triterpenoid, suppresses migration and invasion of human breast cancer cells by modulating c-Jun N-terminal kinase, Akt and mammalian target of rapamycin signaling.</u> Mol Nutr Food Res., 2010, 54, 1285-95. 2. <u>Ursolic acid induces human hepatoma cell line SMMC-7721 apoptosis via p53-dependent pathway.</u> Chin Med J (Engl)., 2010, 123, 1915-23. 3. <u>Ursolic acid ameliorates thymic atrophy and hyperglycemia in streptozotocin-nicotinamide-induced diabetic mice.</u> Chem Biol Interact., 2010, 188, 635-42. 4. <u>Ursolic acid, a potential anticancer compound for breast cancer therapy.</u> Crit Rev Food Sci Nutr., 2018, 58, 568-574. 5. <u>Ursolic acid and mechanisms of actions on adipose and muscle tissue: a systematic review.</u> Obes Rev., 2017, 18, 700-711. 6. <u>Ursolic acid: An overview on its cytotoxic activities against breast and colorectal cancer cells.</u> J Integr Med., 2019, 17, 155-160.

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| | <ol style="list-style-type: none">7. <u>Ursolic Acid and Its Derivatives as Bioactive Agents.</u> Molecules., 2019, 248. <u>Rosmarinic acid and ursolic acid alleviate deficits in cognition, synaptic regulation and adult hippocampal neurogenesis in an A beta 1-42-induced mouse model of Alzheimer's disease.</u> Phytomedicine., 2021, 83, 153490.9. <u>Beneficial Effects of Ursolic Acid and Its Derivatives-Focus on Potential Biochemical Mechanisms in Cardiovascular Conditions.</u> Nutrients., 2021, 1310. <u>Ursolic acid ameliorates amyloid beta -induced pathological symptoms in Caenorhabditis elegans by activating the proteasome.</u> Neurotoxicology., 2022, 88, 231-240.11. <u>Ursolic acid enhances the antitumor effects of sorafenib associated with Mcl-1-related apoptosis and SLC7A11-dependent ferroptosis in human cancer.</u> Pharmacol Res., 2022, 182, 106306.12. <u>Anti-angiogenic activity of triterpene acids.</u> Cancer Lett., 1995, 94, 213-8. |
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