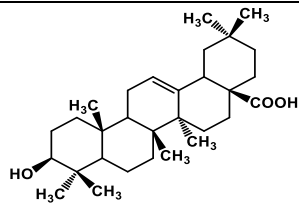


Oleanolic acid

Name of the Phytochemical	Oleanolic acid
Chemical Structure	
Botanical Source	Myroxylon Balsamum
CAS Number	508-02-1
Functional Activity	<ul style="list-style-type: none"> • Exhibits antibacterial, antitumor and antileishmanial activity • It has therapeutic potential for neurodegenerative diseases. • It is a non-toxic, hepatoprotective triterpenoid
Key References	<ol style="list-style-type: none"> 1. <u>Oleanolic acid and related derivatives as medicinally important compounds.</u> J Enzyme Inhib Med Chem.2008, 23, 739-56 2. <u>Oleanolic acid induces relaxation and calcium-independent release of endothelium-derived nitric oxide.</u> Br J Pharmacol. 2008, 155, 535-46 3. <u>Oleanolic acid and related triterpenoids from olives on vascular function: molecular mechanisms and therapeutic perspectives.</u> Curr Med Chem. 2015, 22, 1414-25 4. <u>Oleanolic acid derivatives for pharmaceutical use: a patent review.</u> Expert Opin Ther Pat.2016, 26, 643-55 5. <u>Oleanolic Acid and Its Derivatives: Biological Activities and Therapeutic Potential in Chronic Diseases.</u> Molecules. 2017, 22

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| | <ol style="list-style-type: none"> 6. <u>New Applications of Oleanolic Acid and its Derivatives as Cardioprotective Agents: A Review of their Therapeutic Perspectives.</u> Curr Pharm Des. 2019, 25, 3740-3750 7. <u>Prophylactic and therapeutic roles of oleanolic acid and its derivatives in several diseases.</u> World J Clin Cases. 2020, 8, 1767-1792 8. <u>Oleanolic Acid Protects the Skin from Particulate Matter-Induced Aging.</u> Biomol Ther (Seoul). 2021, 29, 220-226 9. <u>Development and Evaluation of Oleanolic Acid Dosage Forms and Its Derivatives.</u> Biomed Res Int. 2020, 1308749 10. <u>Hypotensive Effects of the Triterpene Oleanolic Acid for Cardiovascular Prevention.</u> Curr Mol Pharmacol. 2021, 14, 935-942 11. <u>Advances on the Anti-Inflammatory Activity of Oleanolic Acid and Derivatives.</u> Mini Rev Med Chem. 2021, 21, 2020-2038 12. <u>Research Advances in Protective Effects of Ursolic Acid and Oleanolic Acid Against Gastrointestinal Diseases.</u> Am J Chin Med. 2021, 49, 413-435 13. <u>Oleanolic Acid: Extraction, Characterization and Biological Activity.</u> Nutrients. 2022, 14 14. <u>Oleanolic acid and ursolic acid: therapeutic potential in neurodegenerative diseases, neuropsychiatric diseases and other brain disorders.</u> Nutr Neurosci. 2023, 26, 414-428 15. <u>Recent advances in medicinal chemistry of oleanolic acid derivatives.</u> Phytochemistry. 2022, 203, 113397 |
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