

Oleanolic acid

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Abstrakty:

EN Oleanolic acid (3 β -hydroxyolean-12-en-28-oic acid) is a pentacyclic triterpenoid compound with a widespread occurrence throughout the plant kingdom. In nature, the compound exists either as a free acid or as an aglycone precursor for triterpenoid saponins, in which it can be linked to one or more sugar chains. Oleanolic acid and its derivatives possess several promising pharmacological activities, such as hepatoprotective effects, and anti-inflammatory, antioxidant, or anticancer activities. With the recent elucidation of its biosynthesis and the imminent commercialization of the first oleanolic acid-derived drug, the compound promises to remain important for various studies. In this review, the recent progress in understanding the oleanolic acid biosynthesis and its pharmacology are discussed. Furthermore, the importance and potential application of synthetic oleanolic acid derivatives are highlighted, and research perspectives on oleanolic acid are given.

Słowa kluczowe:

EN Oleanolic acid CDDO-Me Bardoxolone methyl GC-MS Nrf2 Synthetic triterpenes Saponins Hepatoprotective Anti-inflammatory Anticancer

Wydawca: [Elsevier Science](#)

Czasopismo: [Phytochemistry](#), ISSN 00319422

Rocznik: 2012

Tom: 77

Numer: Complete

Strony: 10-15

Twórcy:

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Języki publikacji: EN

Kolekcja: Elsevier

Identyfikator YADDA: bwmeta1.element.elsevier-5ae54759-c0f5-3d1f-a07d-360430a6c994

Identyfikator: DOI 10.1016/j.phytochem.2011.12.022

