



Product Information

Product ID M0114

CAS No. 18449-41-7

Chemical Name (2 α ,3 β ,4 α ,6 β)-2,3,6,23-tetrahydroxy-Urs-12-en-28-oic acid

Synonym Brahmic acid

Formula C₃₀H₄₈O₆

Formula Wt. 504.70

Melting Point 255-260 °C, 270 °C (dec)

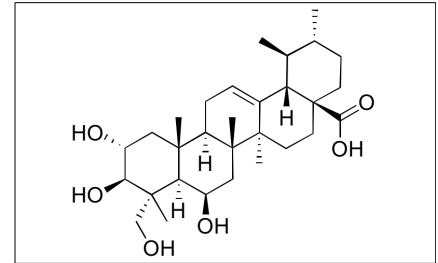
Purity \geq 95%

Solubility Insoluble in water. Soluble in ethanol (20 mg/mL), DMSO (50 mg/mL).

Store Temp Ambient

Ship Temp Ambient

Description Madecassic acid is a triterpene originally found in *Centella* that exhibits anticancer chemotherapeutic, immunomodulatory, and anti-inflammatory activities. In macrophages, madecassic acid downregulates LPS-stimulated expression of iNOS, COX-2, IL-6, TNF- α , and IL-1 β ; it also prevents activation of NF- κ B and degradation of I κ B kinase. In cellular and animal models of colon cancer, madecassic acid decreases the mitochondrial membrane potential, modulates CD4⁺ and CD8⁺ T cell populations, and induces apoptosis, inhibiting cell and tumor growth.



Bulk quantities available upon request

Product ID	Size
M0114	500 mg
M0114	1 g
M0114	5 g

References Zhang H, Zhang M, Tao Y, et al. Madecassic acid inhibits the mouse colon cancer growth by inducing apoptosis and immunomodulation. *J BUON*. 2014 Apr-Jun;19(2):372-6. PMID: 24965394.

Won JH, Shin JS, Park HJ, et al. Anti-inflammatory effects of madecassic acid via the suppression of NF- κ B pathway in LPS-induced RAW 264.7 macrophage cells. *Planta Med*. 2010 Feb;76(3):251-7. PMID: 19774506.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.