



LKT Laboratories, Inc.

Asiaticoside

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Product Information

Product ID A7333

CAS No. 16830-15-2

Chemical Name (2 α ,3 β ,4 α)-2,3,23-Trihydroxyurs-12-en-28-oic acid O-6-deoxy-a-L-mannopyranosyl-(1 \rightarrow 4)-O- β -D-glucopyranosyl-(1 \rightarrow 6)-O- β -D-glucopyranosyl ester

Synonym Madecassol

Formula C₄₈H₇₈O₁₉

Formula Wt. 959.12

Melting Point 230-233 °C

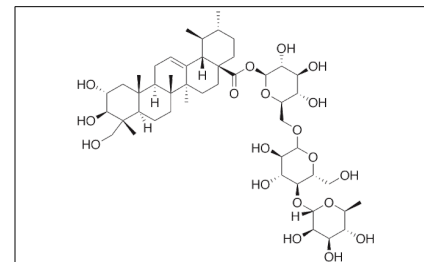
Purity \geq 90%

Solubility Soluble in propylene glycol, ethanol, methanol, pyridine. Insoluble in water.

Store Temp 4 °C

Ship Temp Ambient

Description Asiaticoside is a triterpene found in *Centella* that exhibits anti-inflammatory, neuroprotective, cognition enhancing, antipyretic, antioxidative, pro-angiogenic, anticancer chemotherapeutic, and chemopreventive activities. Asiaticoside inhibits melanogenesis by decreasing DNA binding by MITF; as a result, it is occasionally used in skin whitening treatments. Asiaticoside induces apoptosis, increases activation of caspase 3, decreases release of TNF- α and IL-1 β , and suppresses tumor development and size in animal models of breast cancer. In animal models of cerebral ischemia/reperfusion, asiaticoside improves memory and learning deficits and decreases levels of IL-6, TNF- α , and IL-1 β . Additionally, asiaticoside decreases LPS-induced inflammation and fever, suppresses activity of myeloperoxidase, and increases activity of heme oxygenase 1 (HO-1) in vivo. This compound also supports wound healing activity, increasing cell migration, attachment, and growth in vitro.



Bulk quantities available upon request

Product ID	Size
A7333	1 mg
A7333	5 mg
A7333	10 mg

References Kwon KJ, Bae S, Kim K, et al. Asiaticoside, a component of *Centella asiatica*, inhibits melanogenesis in B16F10 mouse melanoma. *Mol Med Rep.* 2014 Jul;10(1):503-7. PMID: 24756377.

Chen S, Yin ZJ, Jiang C, et al. Asiaticoside attenuates memory impairment induced by transient cerebral ischemia-reperfusion in mice through anti-inflammatory mechanism. *Pharmacol Biochem Behav.* 2014 Jul;122:7-15. PMID: 24631487.

Al-Saeedi FJ. Study of the cytotoxicity of asiaticoside on rats and tumour cells. *BMC Cancer.* 2014 Mar 25;14:220. PMID: 24667059.

Wan J, Gong X, Jiang R, et al. Antipyretic and anti-inflammatory effects of asiaticoside in lipopolysaccharide-treated rat through up-regulation of heme oxygenase-1. *Phytother Res.* 2013 Aug;27(8):1136-42. PMID: 22972613.

Lee JH, Kim HL, Lee MH, et al. Asiaticoside enhances normal human skin cell migration, attachment and growth in vitro wound healing model. *Phytomedicine.* 2012 Oct 15;19(13):1223-7. PMID: 22939261.

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