



LKT Laboratories, Inc.

## Corosolic Acid

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### Product Information

Product ID C5870

CAS No. 4547-24-4

#### Chemical Name

Synonym 2 $\alpha$ -Hydroxyursolic acid, Colosolic acid, Corsolic acid, Glucosol

Formula C<sub>30</sub>H<sub>48</sub>O<sub>4</sub>

Formula Wt. 472.70

#### Melting Point

Purity  $\geq$ 98%

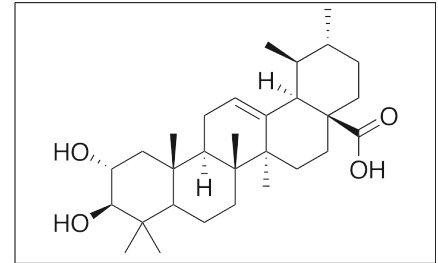
Solubility Soluble in DMSO.

Store Temp 4°C

Ship Temp Ambient

#### Description

Corosolic acid is a pentacyclic triterpene extracted from the leaves of *Lagerstroemia speciosa*. Corosolic acid exhibits antioxidative, anti-diabetic, anti-atherosclerotic, and anticancer activities in vitro and in vivo. This compound decreases blood sugar and increases glucose uptake in vivo, and decreases overall cholesterol levels potentially through inhibition of cholesterol acyltransferase. In lung adenocarcinoma cells, corosolic acid increases reactive oxygen species and induces caspase-mediated apoptosis; it also inhibits activation of STAT3, NF- $\kappa$ B activity, and MCP-1.



**Bulk quantities available upon request**

Product ID	Size
C5870	10 mg
C5870	25 mg
C5870	100 mg

**References** Nho KJ, Chun JM, Kim HK. Corosolic acid induces apoptotic cell death in human lung adenocarcinoma A549 cells in vitro. *Food Chem Toxicol.* 2013 Jun;56:8-17. PMID: 23454206.

Horlad H, Fujiwara Y, Takemura K, et al. Corosolic acid impairs tumor development and lung metastasis by inhibiting the immunosuppressive activity of myeloid-derived suppressor cells. *Mol Nutr Food Res.* 2013 Jun;57(6):1046-54. PMID: 23417831.

Miura T, Takagi S, Ishida T. Management of Diabetes and Its Complications with Banaba (*Lagerstroemia speciosa* L.) and Corosolic Acid. *Evid Based Complement Alternat Med.* 2012;2012:871495. PMID: 23082086.

Chen H, Yang J, Zhang Q, et al. Corosolic acid ameliorates atherosclerosis in apolipoprotein E-deficient mice by regulating the nuclear factor- $\kappa$ B signaling pathway and inhibiting monocyte chemoattractant protein-1 expression. *Circ J.* 2012;76(4):995-1003. PMID: 22293444.

Takagi S, Miura T, Ishihara E, et al. Effect of corosolic acid on dietary hypercholesterolemia and hepatic steatosis in KK-Ay diabetic mice. *Biomed Res.* 2010 Aug;31(4):213-8. PMID: 20834178.

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