



LKT Laboratories, Inc.

## Shikimic Acid

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### Product Information

**Product ID** S3033

**CAS No.** 138-59-0

**Chemical Name** [3R-(3 $\alpha$ ,3 $\beta$ ,4 $\alpha$ ,7 $\alpha$ ,8 $\alpha$ ,8 $\alpha$ )]-2,3,4,7,8,8a-Hexahydro-4-hydroxy-8-(hydroxymethyl)-8-methyl-1H-3a,7-methanoazulene-3,5-dicarboxylic acid

**Synonym** Shikimate

**Formula** C<sub>7</sub>H<sub>10</sub>O<sub>5</sub>

**Formula Wt.** 174.15

**Melting Point** 183-184.5°C (lit.)

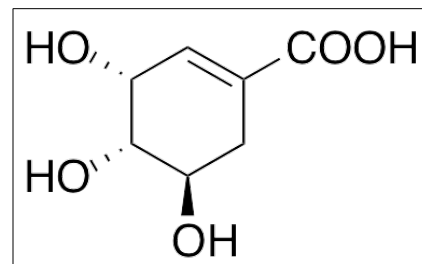
**Purity** ≥98%

**Solubility** Soluble in water (1.8 g/L).  
Practically insoluble in  
chloroform and benzene.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Shikimic acid is one of the bioactive components of coconut water and can be found in various plants and microorganisms. Shikimic acid exhibits antioxidative and antinociceptive activities on its own, although derivatives display anti-inflammatory benefits as well. In hepatocytes, shikimic acid prevents H<sub>2</sub>O<sub>2</sub>-induced increases in ROS levels and DNA damage and activates Nrf2 signaling to increase glutathione and superoxide dismutase levels. Additionally, this compound inhibits chemically-induced writhing in animal models of pain.



**Bulk quantities available upon request**

Product ID	Size
S3033	250 mg
S3033	1 g
S3033	5 g

**References** Manna K, Khan A, Kr Das D, et al. Protective effect of coconut water concentrate and its active component shikimic acid against hydroperoxide mediated oxidative stress through suppression of NF- $\kappa$ B and activation of Nrf2 pathway. J Ethnopharmacol. 2014 May 14. [Epub ahead of print]. PMID: 24835026.

Xing J, You C, Dong K, et al. Ameliorative effects of 3,4-oxo-isopropylidene-shikimic acid on experimental colitis and their mechanisms in rats. Int Immunopharmacol. 2013 Mar;15(3):524-31. PMID: 23434856.

Morucci F, Lopez P, Miño J, et al. Antinociceptive activity of aqueous extract and isolated compounds of Lithrea molleoides. J Ethnopharmacol. 2012 Jul 13;142(2):401-6. PMID: 22609809.

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