



LKT Laboratories, Inc.

Protocatechuic Acid Ethyl Ester

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Product Information

Product ID P7060

CAS No. 3943-89-3

Chemical Name 3,4-Dihydroxybenzoic acid ethyl ester

Synonym Ethyl 3,4-dihydroxybenzoate

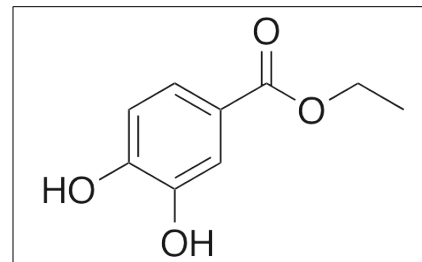
Formula $C_9H_{10}O_4$

Formula Wt. 182.17

Melting Point 131-136°C

Purity ≥98%

Solubility



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
P7060	5 g	\$37.40
P7060	25 g	\$112.10
P7060	100 g	\$224.30

Store Temp Ambient

Ship Temp Ambient

Description Protocatechuic acid is a dihydroxyphenolic acid originally found in cruciferous vegetables, sunflowers, rice, and other plants. Protocatechuic acid exhibits a wide variety of beneficial properties, including antioxidative, anti-inflammatory, anti-parasitic, antibacterial, anti-metastatic, and anticancer activities. Protocatechuic acid inhibits TNF-induced expression and release of adhesion molecules and pro-inflammatory cytokines as well as ADP-induced expression of platelet P-selectin. This compound increases quinone reductase activity and acts as a radical scavenger as well. Additionally, protocatechuic acid improves pathology, motor function, and cognition and decreases infarct size in animal models of bilateral common carotid artery occlusion. This compound is active against both gram positive and gram negative bacteria and exerts antiparasitic activity in vitro and in vivo, indicating potential benefit as an antimalarial treatment. In vitro, protocatechuic acid inhibits RhoB activation, decreasing expression of matrix metalloproteinase 2 (MMP2) and inactivating NF-κB and also inhibits human topoisomerase II; these activities result in inhibition of metastasis, invasion, and proliferation in a variety of cellular models.

References Stumpf C, Fan Q, Hintermann C, et al. Anti-inflammatory effects of danshen on human vascular endothelial cells in culture. *Am J Chin Med.* 2013;41(5):1065-77. PMID: 24117069.

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