



LKT Laboratories, Inc.

Rosmarinic Acid

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Product Information

Product ID R5874

CAS No. 20283-92-5

Chemical Name 3,4-Dihydroxycinnamic acid 2-ester with 3-(3,4-dihydroxy-phenyl) lactic acid

Synonym Rosemary acid

Formula $C_{18}H_{16}O_8$

Formula Wt. 360.31

Melting Point 171-175°C

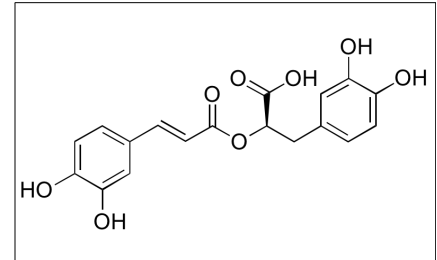
Purity ≥98%

Solubility Soluble in DMSO, ethanol, dimethyl formamide, or PBS.

Store Temp -20°C

Ship Temp Ambient

Description Rosmarinic acid is a caffeic acid ester found in many plants, including *Melissa*, *Salvia*, *Ocimum*, *Rosmarinus*, and *Origanum*. Rosmarinic acid exhibits antidepressant, neuroprotective, anti-inflammatory, anti-allergic, anti-angiogenic, anti-fibrotic, and chemopreventive activities. Rosmarinic acid inhibits GABA transaminase and decreases immobility time in animals undergoing the forced swim test. Additionally, rosmarinic acid inhibits aggregation of amyloid- β (A β) peptides, delaying progression of Alzheimer's disease in vivo. In animal models of OVA-induced allergy, rosmarinic acid decreases levels of IgE, IL-6, IL-1 β , and TNF- α , prevents expression of COX-2, and suppresses infiltration by mast cells and eosinophils. Rosmarinic acid also inhibits the formation of DMBA-induced oral tumors in animal models. This compound inhibits the proliferation of hepatic stellate cells, decreasing levels of α -SMA, CTGF, and TGF- β 1 and preventing CCL4-induced hepatic fibrosis. Rosmarinic acid also inhibits Fyn, a Src family kinase involved in T-cell signaling. In vitro, rosmarinic acid decreases levels of ROS, VEGF, and IL-8, suppressing cellular proliferation, migration, adhesion, and tube formation.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
R5874	10 mg	\$44.80
R5874	25 mg	\$90.00
R5874	100 mg	\$262.20

References Airoldi C, Sironi E, Dias C, et al. Natural compounds against Alzheimer's disease: molecular recognition of A β 1-42 peptide by *Salvia sclarea* extract and its major component, rosmarinic acid, as investigated by NMR. *Chem Asian J.* 2013 Mar;8(3):596-602. PMID: 23303581.

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