



LKT Laboratories, Inc.

Salicin

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Product Information

Product ID S0048

CAS No. 138-52-3

Chemical Name 2-(Hydroxymethyl)phenyl-β-D-glucopyranoside

Synonym Salicoside, salicyl alcohol glucoside, saligenin-β-D-glucopyranoside

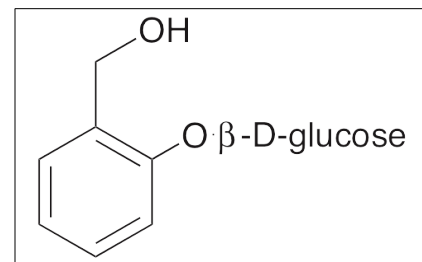
Formula C₁₃H₁₈O₇

Formula Wt. 286.28

Melting Point 199-202 °C

Purity ≥98%

Solubility Soluble in water (43mg/ml)
or ethanol (11 mg/ml).



Bulk quantities available upon request

Product ID	Size
S0048	5 g
S0048	25 g

Store Temp Ambient

Ship Temp Ambient

Description Salicin is an alcoholic β-glucoside originally found in the bark of the white willow tree; it exhibits anticancer chemotherapeutic, anti-angiogenic, anti-inflammatory, and antithrombotic activities. Salicin decreases production of ROS and VEGF, suppresses activation of ERK, and inhibits migration, tube formation, and sprouting in endothelial cells; in cancer models, salicin inhibits tumor growth. Salicin also inhibits dextran-induced colitis in animal models, preventing shortening of colon length, suppressing release of pro-inflammatory cytokines, and decreasing activity of myeloperoxidase. This compound also inhibits serine proteases such as thrombin.

References Kong CS, Kim KH, Choi JS, et al. Salicin, an Extract from White Willow Bark, Inhibits Angiogenesis by Blocking the ROS-ERK Pathways. *Phytother Res.* 2014 Feb 17. [Epub ahead of print]. PMID: 24535656.

Verma N, Verma R, Kumari R, et al. Effect of salicin on gut inflammation and on selected groups of gut microbiota in dextran sodium sulfate induced mouse model of colitis. *Inflamm Res.* 2014 Feb;63(2):161-9. PMID: 24240229.

Jedinák A, Maliar T, Grancai D, et al. Inhibition activities of natural products on serine proteases. *Phytother Res.* 2006 Mar;20(3):214-7. PMID: 16521112.

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