



LKT Laboratories, Inc.

Baicalin

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## Product Information

Product ID B0133

CAS No. 21967-41-9

### Chemical Name

Synonym 7-D-Glucuronic acid-5,6-dihydroxyflavone

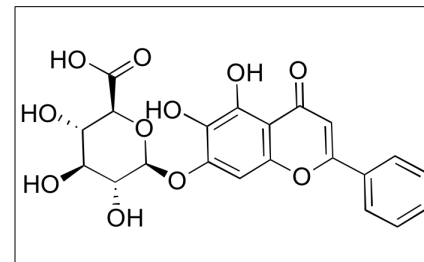
Formula  $C_{21}H_{18}O_{11}$

Formula Wt. 446.36

Melting Point 202-205°C (lit.)

Purity  $\geq 95\%$

Solubility Soluble in DMSO or ethanol.



**Bulk quantities available upon request**

Product ID	Size
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B0133	250 mg
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B0133	500 mg
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B0133	1 g
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Store Temp -20°C

Ship Temp Ambient

**Description** Baicalin is a flavone found in *Scutellaria* that exhibits antiviral, antioxidative, antihypertensive, cardioprotective, anti-inflammatory, and anticancer chemotherapeutic activities. Baicalin inhibits prolyl oligopeptidase. Baicalin also inhibits neuraminidase, preventing influenza infection. In animal models of hypoxia-induced pulmonary arterial hypertension, baicalin decreases systolic blood pressure, inhibits ventricular remodeling, and suppresses proliferation of pulmonary artery smooth muscle cells. In animal models of cerebral hemorrhage, baicalin decreases development of edema and suppresses expression of matrix metalloproteinase 9 (MMP9), IL-6, and IL-1B. Additionally, baicalin inhibits UV-induced skin aging responses in fibroblasts and inhibits cell and tumor growth in models of acute myelogenous leukemia (AML).

**References** Ding Y, Dou J, Teng Z, et al. Antiviral activity of baicalin against influenza A (H1N1/H3N2) virus in cell culture and in mice and its inhibition of neuraminidase. *Arch Virol.* 2014 Jul 31. [Epub ahead of print]. PMID: 25078390.

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Zhang L, Pu Z, Wang J, et al. Baicalin inhibits hypoxia-induced pulmonary artery smooth muscle cell proliferation via the AKT/HIF-1 $\alpha$ /p27-associated pathway. *Int J Mol Sci.* 2014 May 9;15(5):8153-68. PMID: 24821539.

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Tarragó T, Kichik N, Claasen B, et al. Baicalin, a prodrug able to reach the CNS, is a prolyl oligopeptidase inhibitor. *Bioorg Med Chem.* 2008 Aug 1;16(15):7516-24. PMID: 18650094.

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