



LKT Laboratories, Inc.

Daidzin

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## Product Information

Product ID D0033

CAS No. 552-66-9

Chemical Name

Synonym

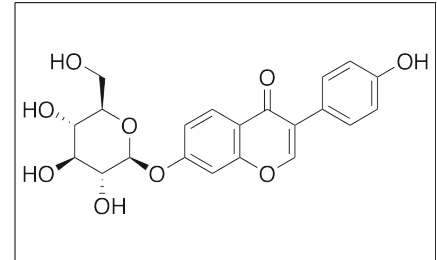
Formula  $C_{21}H_{20}O_9$

Formula Wt. 416.38

Melting Point 234-236°C

Purity ≥98%

Solubility



**Bulk quantities available upon request**

Product ID	Size
D0033	1 mg
D0033	5 mg

Store Temp Ambient

Ship Temp Ambient

**Description** Daidzin is a soy isoflavone and the parent compound of aglycone daidzein; it is also a phytoestrogen. Daidzin exhibits estrogenic, neuromodulatory, cognition enhancing, and antioxidative activities. Daidzin reverses scopolamine-induced memory impairments in animal models undergoing Morris water maze and passive avoidance tests. Additionally, daidzin inhibits DGalN/LPS-induced increases in aminotransferase activity, lipid peroxidation, and TNF- $\alpha$  levels, preventing hepatocyte apoptosis in other animal models. This compound promotes proliferation of osteoblasts and bone marrow stromal cells and osteogenesis in marrow stromal cells; it also inhibits adipocytic differentiation in osteoblasts.

**References** Kim DH, Jung HA, Park SJ, et al. The effects of daidzin and its aglycon, daidzein, on the scopolamine-induced memory impairment in male mice. *Arch Pharm Res.* 2010 Oct;33(10):1685-90. PMID: 21052945.

Kim SH, Heo JH, Kim YS, et al. Protective effect of daidzin against D-galactosamine and lipopolysaccharide-induced hepatic failure in mice. *Phytother Res.* 2009 May;23(5):701-6. PMID: 19107740.

Li XH, Zhang JC, Sui SF, et al. Effect of daidzin, genistin, and glycitin on osteogenic and adipogenic differentiation of bone marrow stromal cells and adipocytic transdifferentiation of osteoblasts. *Acta Pharmacol Sin.* 2005 Sep;26(9):1081-6. PMID: 16115375.

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