

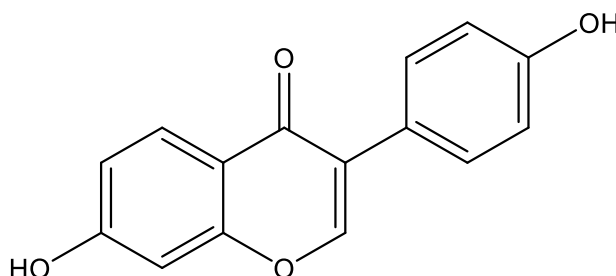
Catalog # 10-2688

Daidzein

7-Hydroxy-3-(4-hydroxyphenyl)-4H-1-benzopyran-4-one; 4',7-Dihydroxyisoflavone

CAS# 486-66-8

Lot # X101317



A phytoestrogen found in soy products.¹ Inhibits insulin or IGF-1 mediated signaling in cell cycle progression in Swiss 3T3 cells.² Improves glucose homeostasis in a type 2 diabetic mouse model.³ May be metabolized to S-equol (another phytoestrogen with greater potency) in the gut by intestinal microflora.^{4,5} Cell permeable and active *in vivo*.

- 1) Casanova *et al.* (1999), *Developmental effects of dietary phytoestrogens in Sprague-Dawley rats and interactions of genistein and daidzein with rat estrogen receptors alpha and beta in vitro*; Toxicol. Sci. **51** 236
- 2) Higashi and Ohawara. (1994), *Daidzein inhibits insulin- or insulin-like growth factor-1-mediated signaling in cell cycle progression of Swiss 3T3 cells*; Biochim. Biophys. Acta **1221** 29
- 3) Cheong *et al.* (2014), *Daidzein promotes glucose uptake through glucose transporter 4 translocation to plasma membrane in L6 myocytes and improves glucose homeostasis in Type 2 diabetic model mice*; J. Nutr. Biochem. **25** 136
- 4) Setchell *et al.* (2013), *Dietary factors influence production of the soy isoflavone metabolite s-(-)equol in healthy adults*; J. Nutr. **143** 1950
- 5) Kim *et al.* (2026), *Microbial Production and Industrial Applications of (S)-Equol for Precision Health and Functional Food Innovation*; J. Agric. Food Chem. **74** 1938

PHYSICAL DATA

Molecular Weight: 254.24
 Molecular Formula: C₁₅H₁₀O₄
 Purity: >98% by TLC
 NMR: Conforms
 Solubility: DMSO (25 mg/mL)
 Physical Description: White solid
 Storage and Stability: Store as supplied desiccated at -20°C for up to 2 years from the date of purchase.
 Solutions in DMSO may be stored at -20°C for up to 1 week.

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