

Daidzein

09/19

ALTERNATE NAMES:	Daidzeol; 4',7-Dihydroxyisoflavone; 7,4'-Dihydroxyisoflavone; 4,7-Dihydroxyisoflavone; 7-hydroxy-3-(4- hydroxyphenyl)chromen-4-one; 7-Hydroxy-3-(4-hydroxyphenyl)-4-benzopyrone; 7-Hydroxy-3-(4- hydroxyphenyl)-4H-1-benzopyran-4-one
CATALOG #:	B2906-50 50 mg B2906-250 250 mg
STRUCTURE:	ОН
MOLECULAR FORMULA:	$C_{15}H_{10}O_4$
MOLECULAR WEIGHT:	254.24
CAS NUMBER:	486-66-8
APPEARANCE:	A crystalline solid
PURITY:	≥95%
SOLUBILITY:	~30 mg/ml in DMSO ~10 mg/ml in DMF ~0.1 mg/ml in Ethanol
DESCRIPTION:	Daidzein is an isoflavone phytoestrogen found in soybean, with antioxidant properties. It increases transactivation of estrogen receptor β -induced transcription. It binds to estrogen receptor β (ER- β ; K _i = 2.8 µM) but not ER- α at concentrations up to 1 mM. Daidzein does not increase metastasis to lymph nodes and acts as a radiosensitizer in mice bearing PC-3 prostate tumors.
STORAGE TEMPERATURE:	-20°C. Protect from air. Store under desiccating conditions.
HANDLING:	Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.
REFERENCES:	 Harris, D.M., Besselink, E., Henning, S.M., et al. Phytoestrogens induce differential estrogen receptor alpha- or beta-mediated responses in transfected breast cancer cells. Exp. Biol. Med. (Maywood) 230(8), 558-568 (2005). Singh-Gupta, V., Zhang, H., Yunker, C.K., et al. Daidzein effect on hormone refractory prostate cancer in vitro and in vivo compared to genistein and soy extract: Potentiation of radiotherapy. Pharm. Res. 27(6), 1115-1127 (2010). Kładna, A., Berczyński, P., Kruk, I. et al. Studies on the antioxidant properties of some phytoestrogens. Luminescence. Sep;31(6):1201-1206 (2016). Zhao, L., and Brinton, R.D. Structure-based virtual screening for plant-based ERβ-selective ligands as potential preventative therapy against age-related neurodegenerative diseases. J. Med. Chem. 48(10), 3463-3466 (2005).
RELATED PRODUCTS:	

Lasofoxifene tartrate (Cat. No. 9680) Naringenin (Cat. No. 1772) Endoxifen (Cat. No. 9614) Piperine (Cat. No. B2086) (Z)-4-Hydroxytamoxifen (Cat. No. B1114)

DISCLAIMER:

FOR RESEARCH USE ONLY! Not to be used on humans.