

Isoflavones

Isoflavones are a group of compounds that can be found in plants; many of them exhibit a variety of biological activities, including antioxidative properties. Isoflavones are primarily found in legumes such as soybean, alfalfa, peanut, and red clover. Isoflavones naturally occur as glycosides but can be hydrolyzed to a more bioactive and lipophilic aglycone form.



These compounds display many research applications in cell and animal models, including protection against UV-induced DNA damage¹. In animal models, isoflavones improve antioxidative capacity and increase levels of estrogen receptors, decreasing incidence and number of mammary tumors². These compounds also exhibit cardioprotective activity, inhibiting the development of cardiac hypertrophy³. Additionally, isoflavones prevent bone turnover and maintain bone mineral density in ovariectomized animals, indicating potential as a treatment for osteoporosis⁴.



LKT Laboratories carries a wide range of isoflavones, including the representative compounds below.

B3358 Biochanin A
D0033 Daidzin
D0032 Daidzein
E6781 Equol
F5770 Formononetin
G1653 Genistin
G1652 Genistein
G4799 Glycitin
G4798 Glycitein
N0068 Naringenin
P8117 Puerarin



References:

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2. Ma D, Zhang Y, Yang T, et al. J Clin Biochem Nutr. 2014 Jan;54(1):31-8.
3. Maulik SK, Prabhakar P, Dinda AK, et al. Can J Physiol Pharmacol. 2012 Aug;90(8):1117-25.
4. Kim DW, Yoo KY, Lee YB, et al. J Med Food. 2009 Jun;12(3):536-41.

