Biological Trace Element Research, 79, 83-89 (2001).

Comparison of Antioxidative and Chelating Effects of Daidzein and Daidzin on Protein Oxidative Modification by Copper *In Vitro*

Shizuo Toda¹ and Yoshiaki Shirataki (白瀧義明)²

¹Department of Pharmaceutical Science, Kansai College of Oriental Medicine, Osaka 590-0482, Japan; ²Faculty of Pharmaceutical Sciences, Josai University, Saitama 350-0295, Japan

Daidzein and its glycoside daidzin are isoflavones. Their antioxidative effects were compared *in vitro*. Although both compounds inhibited proteino xidative modification by copper, the inhibitory effect of daidzein was stronger than that of daidzin. Because daidzein showed a greater affinity for Cu²⁺, the antioxidant effect of these isoflavones may be dependent on their respective copper-chelating abilities.