Pharmaceutical Biology, 40, 422-424 (2002).

Inhibitory Effects of Isoflavones in *Sophora moorcroftiana* on Lipid Peroxidation by Superoxide

Shizuo Toda[1] and Yoshiaki Shirataki (白瀧　義明) [2]

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

The possible inhibitory effects were investigated for three isoflavones: sophoraisoflavone A, and licoisoflavones A and B, isolated from *Sophora moorcroftiana* Benth *ex* Baker, on lipid peroxidation by superoxide anion. They inhibited the production of lipid peroxidation each by superoxide anion and the generation of superoxide anion by the xanthine-xanthine oxidase system. Their effects were similar to superoxide dismutase as a superoxide anion scavenger. These results demonstrate that these isoflavones have inhibitory effects on oxidative stress.