

〈原 著〉

高麗人参エキスの培養ヒト皮膚線維芽細胞における グリコサミノグリカン生成に及ぼす影響

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Effect of Panax Ginseng Extract on The Production of Glycosaminoglycans in Cultured Human Skin Fibroblasts

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Abstract

Panax ginseng which is representative of medicinal ginseng was studied for its effect on the production of glycosaminoglycans (GAG) in cultured human skin fibroblasts. GAG was analyzed by measuring ³H-glucosamine incorporation into cetylpyridinium chloride-precipitated GAG.

The production of GAG was increased by the addition of 70% methanol extract of Panax ginseng, this augmentation was observed only in saponin fraction. Moreover ginsenoside-Rb₁, -Rb₂, -Rc, -Re, and -Rg₁ which are major ginseng saponins were studied. All of them accelerated the production of GAG, ginsenoside-Rb₂ was found to be especially effective.

Keywords: Panax ginseng, glycosaminoglycans, ginsenoside, fibroblast