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Enhancement of insulin sensitivity in adipocytes by ginger.

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Abstract

Antidiabetic and hypoglycemic drugs have been reported to enhance adipocyte differentiation of 3T3-L1 preadipocytes. We previously reported that ginseng (active constituents: ginsenosides) enhanced the differentiation [1]. In this experiment, effect of some ginger group food extracts on the adipocyte differentiation was investigated using cultured mouse 3T3-L1 preadipocytes. 3T3-L1 cells were grown as monolayer cultures at 37 degrees C in DMEM supplemented by 10% FBS under the atmosphere of 5% CO(2)-95% air. Ginger extracts were found to enhance the adipocyte differentiation. Active constituent was purified and identified as gingerol. In the gingerol-treated cells, insulin-sensitive glucose uptake was increased. It is expected that ginger enhance the insulin-sensitivity, and improve chronic disease, such as diabetes.

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MeSH Terms, Substances



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