

Name of Journal: *World Journal of Diabetes*

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Basic Study

Possible drug for type 2 diabetes-decarboxylated osteocalcin triggers glucose uptake in MG63 cells

dcOC triggers glucose uptake

Abstract

BACKGROUND

Uncarboxylated osteocalcin (GluOC) has been reported to improve glucose metabolism, prevent type 2 diabetes and decrease the severity of obesity in mice with type 2 diabetes. GluOC can increase glucose uptake in a variety of cells. Glucose metabolism is the main source of energy for osteoblast proliferation and differentiation. We hypothesize that decarboxylated osteocalcin (dcOC), a kind of GluOC, can

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