

Active Native Bovine Advanced Glycation End Product (AGE) Protein

Cat. No. AGE-39 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Native Bovine Advanced Glycation End Product (AGE) Protein was Natural Extract.
Species	Bovine
Source	Natural Extract
Form	PBS, pH7.4, containing 5% Trehalose.
Bio-activity	Glucose and other reducing sugars can react non-enzymatically with the amino groups of proteins to form compounds called advanced glycation end products(AGEs). AGEs exert their cellular functions via the interaction with receptor for advanced glycation end products (RAGE). It has been reported that AGE stimulates the differentiation and proliferation of 3T3, thus a proliferation assay was conducted using 3T3 cells. Briefly, 3T3 cells were seeded into triplicate wells of 96-well plates at a density of 2,000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of AGE. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10μ of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of 3T3 cells after incubation with AGE for 48h observed by inverted microscope was shown. Cell viability was assessed by CCK-8

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(Cell Counting Kit-8) assay after incubation with recombinant AGE for 48h. It was obvious that AGE significantly increased cell viability of 3T3 cells.

Endotoxin

Less than 0.1 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Storage

Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

Reconstitution

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

Activity

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