Datasheet for ABIN6239805

AGE Protein (His tag)

Go to Product page

Overview

Quantity:	50 µg
Target:	AGE
Origin:	All Species
Source:	Human
Biological Activity:	Active
Purification tag / Conjugate:	This AGE protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 90 %
Biological Activity Comment:	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, 10µL 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

Product Details

	cells after incubation with AGE for 48h observed by inverted microscope was shown in Figure1. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant AGE for 48h. The result was shown in Figure 2. It was obvious that AGE significantly increased cell viability of 3T3 cells.

Target Details

Target:	AGE
Alternative Name:	Advanced Glycation End Product (AGE) (AGE Products)
Target Type:	Chemical
Background:	Alternative Names: AGEs, Advanced Glycation End Products

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4, containing 1 mM DTT, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.