CREATIVE BIOMART®
Assay Kit

Albumin Glycation Assay Kit

Product Information

Cat.No. Kit-0068

Product Overview

Albumin Glycation Assay Kit provides rapid detection of fluorescent AGEs and inhibition assay for glycation of albumin solution by glyceraldehyde.This kit provides sufficient reagents to perform up to 192 assays.The availability and convenience of this kit will contribute to analysis of functional foods or development of anti-glycation material in the cosmetic field.

Description

The non-enzymatic reaction of reducing carbohydrates with lysine side chains and N-terminal amino groups of macromolecules (proteins, phospholipids and nucleic acids) is called the Maillard reaction or glycation. The products of this process, termed advanced glycation end products (AGEs), adversely affect the functional properties of proteins. Many AGEs have fluorescent and convalent cross-linking properties.Accumulation of AGEs has been thought to play an important role in the pathogenesis of diabetic patients as well as the aging process. Recent studies have suggested that AGEs can arise not only from sugars but also from carbonyl compounds derived from the autoxidation of sugars and other metabolic pathways. Among different AGEs, there is evidence that glyceraldehyde-derived AGEs are associated with such cytotoxcity.

Storage

4°C

Kit Components

1. Bovine Serum Albumin (BSA) Solution: 10 Ml x 1 bottle;2. glyceraldehyde (500mM): 2 mL x 1 bottle;3. buffer solution: 30 mL x 1bottle;4. Aminoguanidine solution (20mM)*Anti glycation standard substance: 0.5 mL x 1 bottle;* One kit contains regents for 192 assays (Tube or 96 well Plate).* Additional materials required.1. 96well black plate (clear bottom, sterile): Greiner [μCLEAR□PLATE BLACK] is recommended. 2. Fluorescent microplate reader: (Mode: Fluorescence Bottom Reading, Excitation Wavelength: 370nm, Emission Wavelength: 440nm).

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