CREATIVE BIOMART®
Assay Kit

Collagen Glycation Assay Kit (Glyceraldehyde)

Product Information

Cat.No. Kit-0240

Product Overview

For rapid detection of fluorescent AGEs and inhibition assay for glycation of collagen by glyceraldehyde.Collagen Anti-glycation Assay Kit, Glyceraldehyde provides rapid detection of fluorescent AGEs and inhibition assay forglycation of collagen by glyceraldehyde. This kit provides sufficient reagents to perform up to 192 assays.

Description

The non-enzymatic reaction of reducing carbohydrates with lysine or arginine side chains and N-terminal amino groups of macromolecules (proteins, phospholipids and nucleic acids) is called the Maillard reaction or glycation. Theproducts 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. Collagen Acidic Solution: 5 mL;2. Neutralizing Solution: 5 mL;3. Glyceraldehyde Solution (500mM): 2 mL;4. Sample Dilution Buffer: 30 mL;5. Aminoguanidine Solution (20mM): Positive control 0.5 mL

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