

Aldehyde Site Detection Kit

Cat. No. Kit-0072 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Aldehyde Site Detection Kit is a fluorescence-based method for detecting aldehyde sites in cells.

Description

Oxidative damage occurs in all living organisms from reactive oxygen species (ROS), which are a consequence of normal body processes such as metabolism. ROS react with proteins, resulting in protein modification, such as introduction of carbonyl groups into the protein. The modified proteins are dysfunctional and can be removed through degradation. Both mitochondrial DNA and nuclear DNA are constantly exposed to oxygen radicals, causing extensive oxidative damage. DNA damage by ROS has significant consequences since it causes mutations and genomic instability. Studies have shown that oxidative DNA damage accumulates with aging. Oxidative DNA damage has been implicated to be important in many diseases, including cancer.¹ Assessment of this damage in various biological matrices is essential for understanding the mechanisms of oxidative damage and its biological effects.

Usage

For research use only (RUO)

Storage

Aldehyde Site Assay Reactive Probe -20°C
Cell-Based Assay Buffer (10X) Room Temperature
Cell-Based Assay Fixative Room Temperature
Cell-Based BSA Blocking Solution 4°C
Aldehyde Site Assay Denaturing Solution Room Temperature
Cell-Based Assay Avidin-FITC Complex -20°C
Cell-Based Assay Epigallocatechin Gallate (EGCG) -20°C
Note: Avidin-FITC is light sensitive. Do not expose to direct intense light.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Kit Components

Aldehyde Site Assay Reactive Probe 120 μ L
Cell-Based Assay Buffer (10X) 50 mL
Cell-Based Assay Fixative 12 mL
Cell-Based BSA Blocking Solution 10 mL
Aldehyde Site Assay Denaturing Solution 5 mL x 2
Cell-Based Assay Avidin-FITC Complex 1 vial
Cell-Based Assay Epigallocatechin Gallate (EGCG) 1 vial

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