CREATIVE BIOMART®
Assay Kit

DNA Damage Quantification Kit

Product Information

Cat.No. Kit-0296

Product Overview

DNA Damage Quantification Kit is used for determining the DNA lesion and repair.

Description

Apurinic/apyrimidinic (AP) sites are one of the major types of DNA lesions formed during the course of base excision and repair of oxidized, deaminated or alkylated bases. It has been estimated that about 2x10^5 base lesions are generated per cell per day. The level of AP sites in cells can be a good indicator of DNA lesion and repair against chemical damage and cell aging. The DNA Damage Quantification Kit utilizes the ARP (Aldehyde Reactive Probe) reagent that reacts specifically with an aldehyde group which is the open ring form of the AP sites. After treating DNA containing AP sites with ARP reagents, AP sites are tagged with biotin residues, which can be quantified using avidin-biotin assay followed by a colorimetric detection. The kit provides the necessary reagents for convenient determination of abasic sites in purified DNA sample in 96-well plate format.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store the kit at 4°C. Do not freeze.

Kit Components

ARP Solution (10 mM, in DMSO) 0.125 mlTE Buffer 30 mlGlycogen Solution (10 µg/µl) 0.1 ml0 ARP-DNA Standard (0.5 µg/ml) 0.6 ml40 ARP-DNA Standard (0.5 µg/ml) 0.6 mlDNA Binding Solution 10 mlHRP-Streptavidin 0.15 ml10X Wash Buffer 30 mlHRP Developer 10 ml96-well Microplate (8 x 12 strips) 1 plate

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Detection method Colorimetric

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