CREATIVE BIOMART®
Assay Kit

Sulfenylated Protein Cell-Based Detection Kit

Product Information

Cat.No. Kit-2031

Size

96 wells

Description

Reactive oxygen species (ROS) react with proteins, resulting in protein modification, such as protein sulfenylation through the reversible oxidation of cysteine residues. Redox-sensitive cysteine residues in proteins can function as sensors of ROS and serve as molecular switches, activating or deactivating proteins, following a change in oxidative state. However, the accumulation of proteins with irreversible cysteine oxidation is a hallmark of stress-induced cellular damage associated with diseases like cancer. The Sulfenylated Protein Cell-Based Detection Kit employs the cell-permeable and chemoselective DAz-2 probe to detect sulfenic acid-modified proteins in living cells. It can be used to monitor intracellular sulfenylated protein levels in living cells to discriminate between normal and pathological conditions or to help identify new pathways regulated by sulfenic acid formation.

Storage

-20°C

Kit Components

Cell-Based Assay DAz-2: 1 vial/30 µl; -20°CCell-Based Assay Buffer (10X): 1 vial/50 ml; Room Temperature Cell-Based Assay Fixative: 1 vial/10 ml; Room TemperatureCell-Based BSA Blocking Solution: 1 vial/10 ml; 4°CCell-Based Assay Phosphine-biotin: 1 vial/50 µl; -20°C Cell-Based Assay Avidin-FITC Complex: 1 vial/1 mg; -20°CCell-Based Assay Epigallocatechin Gallate (EGCG): 1 vial/50 µl; -20°C

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