CREATIVE BIOMART®
Assay Kit

Gamma-Glutamylcysteine Ligase (GCL) Activity Assay Kit

Product Information

Product Overview

Significance of Measurement: Glutathione peroxidase (GPx, EC 1.11.1.9) is an important antioxidant enzyme that reduces hydrogen peroxide and lipid peroxides using reduced glutathione. GPx plays a critical role in preventing oxidative damage to membranes and macromolecules.
Principle of Measurement: GPx catalyzes the reduction of peroxides, producing oxidized glutathione (GSSG), which is subsequently reduced back to GSH by glutathione reductase with concomitant oxidation of NADPH. The decrease in absorbance at 340 nm reflects GPx activity.

Size

100t/48s

Storage

Store at -20 °C. Shelf life: 6 months.

Synonyms

GCL Kit

Detection method Spectrophotometer/Microplate Reader

Materials Required but Not Supplied

UV–visible spectrophotometer or microplate reader, benchtop centrifuge, adjustable pipettes, quartz cuvettes or 96-well plates, and distilled water.

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