CREATIVE BIOMART®
Assay Kit

Glutathione Peroxidase (GPX) Activity Assay Kit

Product Information

Product Overview

Significance: Glutathione peroxidase (GPX, EC 1.11.1.9) is a key peroxide-degrading enzyme widely present in organisms. GPX enzymes are classified based on their active centers, with selenocysteine-containing GPX being predominant in most species. GPX reduces hydrogen peroxide and lipid peroxides, playing a critical role in antioxidant defense. This assay specifically measures selenocysteine-dependent GPX activity.
Principle: GPX catalyzes the oxidation of reduced glutathione (GSH) to oxidized glutathione (GSSG) using organic peroxides as substrates. GSH reacts with DTNB to produce a compound with characteristic absorbance at 412 nm. The decrease in absorbance reflects GPX activity.

Size

100t/48s

Storage

Store at 2–8 °C. Shelf life: 6 months.

Synonyms

GPX Kit

Detection method Spectrophotometer/Microplate Reader

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