

Glutathione Peroxidase (GSH-Px) Activity Assay Kit

Cat No: HR3BC1201

For research use only

Overview

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| Detection Method | Colorimetric method |
| Storage | 2-8? |
| Instrument | Microplate reader(400-420 nm,optimum wavelength: 412 nm) |
| Assay Time | 40 min |
| Validity | 6 |
| Assay Type | Enzyme Activity |
| Sample Type | Serum,plasma,cells,cell culture supernatant,tissue |
| Synonyms | GSH-PX |
| Instrument | Microplate reader(400-420 nm,optimum wavelength: 412 nm) |
| Detection Principle | Glutathione peroxidase (GSH-Px) can promote the reaction of hydrogen peroxide (H ₂ O ₂) and reduced glutathione to produce H ₂ O and oxidized glutathione (GSSG). The activity of glutathione peroxidase can be expressed by the rate of enzymatic reaction. The activity of glutathione can be calculated by measuring the consumption of reduced glutathione. Hydrogen peroxide (H ₂ O ₂) and reduced glutathione can react without catalysis of GSH-Px, so the portion of GSH reduction by non-enzymatic reaction should be subtracted. GSH can react with dinitrobenzoic acid to produce 5-thio-dinitrobenzoic acid anion, which showed a stable yellow color. Measure the absorbance at 412nm, and calculate the amount of GSH. |
| Reagents | Normal saline (0.9% NaCl), PBS (0.01 M, pH 7.4) |
| Labware | Micropipettor, Incubator, Vortex mixer, Centrifuge |
| Size | 96T |
| Sensitivity | 17.17 U |
| Detection Range | 17.17-518.32 U |
| Recovery Rate | 104 |