Glutathione Peroxidase (GSH-Px) Activity Assay Kit

Cat No: HR3BC1201

For research use only

Overview

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 (H2O2) and reduced glutathione to produce H2O 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 (H2O2) 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