

ABG102530: Glutathione Peroxidase Assay Kit (Colorimetric)

Alternative Name : GPX

Description

Detection method : Colorimetric

Sample type : Cell culture supernatant, Urine, Serum, Plasma, Platelets, Other biological fluids, Tissue Extracts

Assay type : Enzyme activity

Sensitivity : 0.5 mU/ml

Assay time : 0h 40m

Product overview : Glutathione Peroxidase Assay Kit (Colorimetric) can be used to quantitate the activity of all of the glutathione dependent peroxidases in plasma, erythrocyte lysates, tissue homogenates, and cell lysates.

In the glutathione peroxidase assay protocol, glutathione peroxidase (GPx) oxidizes GSH to produce GSSG as part of the reaction in which it reduces cumene hydroperoxide. Glutathione reductase (GR) then reduces the GSSG to produce GSH, and in the same reaction consumes NADPH. The decrease of NADPH (measured at OD=340 nm) is proportional to GPx activity.

The assay has a detection sensitivity of ~ 0.5 mU/ml of GPx in samples.

Glutathione peroxidase assay protocol summary:

- add samples and standards to wells
- add reaction mix and incubate for 15 min at room temp to deplete all GSSG in sample
- add cumene hydroperoxide
- analyze with microplate reader immediately, and after at least 5 min

Product Info

Amount : 100 Tests

Storage condition : Store at -20°C. Please refer to protocols.