CREATIVE BIOMART®
Assay Kit

GSH/GSSG Assay Kit

Product Information

Cat

Kit-2510

Cat.No. Kit-2510

Product Overview

Glutathione , a tripeptide of glycine, glutamic acid and cysteine, is one of the key antioxidants involved in protecting cells from damages by reactive oxygen species. Glutathione (GSH) reduces disulfide bonds in cytoplasmic proteins to cysteines, in which it is converted to its oxidized form GSSG. GSH/GSSG Assay Kit is designed to accurately measure total, reduced and oxidized glutathione in biological samples using an enzymatic method that utilizes Ellman's Reagent (DTNB) and glutathione reductase (GR). DTNB reacts with reduced glutathione to form a yellow product. The rate of change in the optical density,measured at 412 nm, is directly proportional to glutathione concentration in the sample. This kit can also be used to measure oxidized (GSSG) by using a specific protocol which first scavenges all GSH with 1-methyl-2-vinylpyridinium triflate.

Storage

-20°C

Shipping

On Ice

Size

100 tests

Detection method OD412nm

Compatible Sample Types

Whole blood, plasma, serum, urine, tissue and cell extracts

Features & Benefits

Sensitive and accurate. Linear detection range 0.01-3 μM GSH equivalents with a detection limit of 10 nM GSH equivalents.

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Assay time
20 min
Sensitivity
10 nM

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