CREATIVE BIOMART®
Assay Kit

GST Activity Colorimetric Assay Kit

Product Information

Cat.No. Kit-0399

Product Overview

GST Activity Assay Kit (Colorimetric) is used for detecting GST activity in crude cell lysate or purified protein fraction, and also quantitate GST-tagged fusion protein.

Description

Glutathione S-transferase (GST) is a family of enzymes that play an important role in detoxification of xenobiotics. GST catalyzes attachment of the thiol of glutathione to electrophiles. Glutathione is used to scavenge potentially toxic compounds including those produced as a result of oxidative stress and is part of the defense mechanism neutralizing the mutagenic, carcinogenic and toxic effects of such compounds. The GST Activity Assay Kit (Colorimetric) is based upon the GST-catalyzed reaction between GSH and the GST substrate, CDNB (1-chloro-2,4-dinitrobenzene, which has the broadest range of isozymes detectability (e.g., alpha-, mu-, pi-, and other GST isoforms, except theta). Under certain conditions, the interaction between glutathione and CDNB is totally dependent on the presence of active GST.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store the kit at -20°C.

Kit Components

GST Assay Buffer 25 mLGST Substrate (CDNB) 0.1 mLGlutathione (GSH, lyophilized) 17 mg x 2GST Positive Control 10 μL

Detection method Colorimetric

Compatible Sample Types

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Assay Kit

GST Activity Colorimetric Assay Kit

Biological Fluid, Cell Lysate, Culture Medium, Plasma, Serum, Tissue Lysate, Urine

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