CREATIVE BIOMART®
Assay Kit

GST Activity Fluorometric Assay Kit

Product Information

Cat.No. Kit-0400

Product Overview

GST Activity Assay Kit (Fluorometric) is used for detecting the GST activity.

Description

Glutathione S-transferase (GST) is a family of enzymes that play an important role in detoxification of xenobiotics by formation of glutathione adducts via the thiol group. GST utilizes glutathione to scavenge potentially toxic compounds including those produced as a result of oxidative stress, and is an important part of the defense mechanism against the mutagenic, carcinogenic and toxic effects of such compounds. The GST Activity Assay Kit (Fluorometric) provides a simple, fluorescence-based in vitro assay for detecting the GST activity using fluorescence plate reader. The assay utilizes monochlorobimane (MCB), a dye that reacts with glutathione. The free form of MCB is almost non-fluorescent, whereas the dye fluoresces blue (Ex/Em = 380/461 nm) after reaction with glutathione catalyzed by GST. The change in fluorescence over time is thus allows for an easy direct measurement of the sample GST level. The kit can detect GST activity in crude cell lysate or purified protein fraction. The kit can also be used to detect or quantitate GST-tagged fusion recombinant protein. Detection sensitivity< 0.5 mU.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at -20°C.GST Standard: store at -80°C.

Kit Components

GST Assay Buffer 25 mLMCB Substrate (in DMSO) 200 μLGlutathione (lyophilized) 2 vialsGST Standard 10 μL

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

CREATIVE BIOMART®
Assay Kit

GST Activity Fluorometric Assay Kit

Detection method Fluorometric

Compatible Sample Types

Cell sample, Erythrocute sample, Plasma sample, Tissue sample

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