

GST Activity Fluorometric Assay Kit

Cat. No. Kit-0400 **Lot. No.** (See product label)

SPECIFICATION

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 mL MCB Substrate (in DMSO) 200 µL Glutathione (lyophilized) 2

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	vialsGST Standard 10 µL
Detection method	Fluorometric
Compatible Sample Types	Cell sample, Erythrocyte sample, Plasma sample, Tissue sample

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