

GST Activity Colorimetric Assay Kit

Cat. No. Kit-0399 **Lot. No.** (See product label)

SPECIFICATION

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 mL GST Substrate (CDNB) 0.1 mL Glutathione (GSH, lyophilized) 17 mg x 2 GST Positive Control 10 µL
Detection method	Colorimetric

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



**Compatible Sample
Types**

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

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