

## Native Human Glutathione S-Transferase

Cat. No. NATE-0326

Lot. No. (See product label)

### Introduction

#### Description

Glutathione S-transferases are a family of proteins that catalyze the conjugation of reduced glutathione with a variety of hydrophobic chemicals containing electrophilic centers.

#### Synonyms

EC 2.5.1.18; glutathione S-transferase; glutathione S-alkyltransferase; glutathione S-aryltransferase; S-(hydroxyalkyl)glutathione lyase; glutathione S-alkyltransferase; glutathione S-alkyl transferase; GST; 50812-37-8

### Product Information

#### Species

Human

#### Source

Human placenta

#### Form

Lyophilized powder containing Tris buffer salts, reduced glutathione and EDTA.

#### EC Number

EC 2.5.1.18

#### CAS No.

50812-37-8

#### Activity

25-125 units/mg protein

#### Pathway

Biological oxidations, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Drug metabolism-cytochrome P450, organism-specific biosystem; Drug metabolism-cytochrome P450, conserved biosystem; Glutathione conjugation, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Arachidonate Epoxigenase / Epoxide Hydrolase, organism-specific biosystem; Biological oxidations, organism-specific biosystem; Diurnally regulated genes with circadian orthologs, organism-specific biosystem; Drug metabolism-cytochrome P450, organism-specific biosystem; Drug metabolism-cytochrome P450, conserved biosystem; Glutathione conjugation, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem

#### Function

glutathione transferase activity; transferase activity; JUN kinase binding; S-nitrosoglutathione binding; dinitrosyl-iron complex binding; drug binding; glutathione binding; glutathione transferase activity; glutathione transferase activity; kinase regulator activity; nitric oxide binding; protein binding; transferase activity

#### Unit Definition

One unit will conjugate 1.0  $\mu$ mole of 1-chloro-2,4-dinitrobenzene with reduced glutathione per min at pH 6.5 at 25°C.

### Storage and Shipping Information

#### Storage

-20°C