Creative Enzymes®

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-aralkyltransferase; 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 Epoxygenase / 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 μmole 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