

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 μ 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