

Native Rat Glutathione-S-Transferase

Cat. No. NATE-0327

Lot. No. (See product label)

Introduction

Description Glutathione S-transferases (GSTs), previously known as ligandins, comprise a

family of eukaryotic and prokaryotic phase II metabolic isozymes best known for their ability to catalyze the conjugation of the reduced form of glutathione (GSH) to xenobiotic substrates for the purpose of detoxification. The GST family consists of three superfamilies:the cytosolic, mitochondrial, and microsomal—also known as MAPEG—proteins. Members of the GST superfamily are extremely diverse in amino acid sequence, and a large fraction of the sequences deposited in public databases are of unknown function. The Enzyme Function Initiative (EFI) is using GSTs as a

model superfamily to identify new GST functions.

Synonyms Glutathione S-transferases; GSTs; GST; Glutathione S-alkenetransferase;

Glutathione S-alkyltransferase; Glutathione S-aralkyltransferase; Glutathione S-aryltransferase; Glutathione S-epoxidetransferase; RX:Glutathione R-transferase;

EC 2.5.1.18; 50812-37-8

Product Information

Species Rat

Source Rat Liver

Form Lyophilized

EC Number EC 2.5.1.18

CAS No. 50812-37-8

Purity Purified

Activity > 10 U/mg

Contaminants ALP, gGT, GPT/ALT, GOT/AST, SDH:

Pathway Drug metabolism-cytochrome P450, organism-specific biosystem; Drug

metabolism-cytochrome P450, conserved biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; Metabolism of xenobiotics by cytochrome P450, organism-specific biosystem; Metabolism of xenobiotics by

cytochrome P450, conserved biosystem

Function drug binding; glutathione binding; glutathione transferase activity; glutathione

transferase activity; transferase activity

Unit Definition One unit will catalyze the transfer of one micromole of glutathione to 1-chloro-2,4-

dinitrobenzene per minute at 37°C and pH 6.5.

Storage and Shipping Information

Storage -20°C

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