

Native Human Glutathione Peroxidase

Cat. No. NATE-0323

Lot. No. (See product label)

Introduction

Description

Glutathione peroxidase is an enzyme which reduced lipid hydroperoxides into their corresponding alcohols. It also reduces free hydrogen peroxide in to water. In vivo it is responsible for protecting hemoglobin from oxidative breakdown.

Synonyms

EC 1.11.1.9; GSH peroxidase; selenium-glutathione peroxidase; reduced glutathione peroxidase; 9013-66-5; GSH-Px, Glutathione:hydrogen-peroxide oxido-reductase; Glutathione Peroxidase

Product Information

Species

Human

Source

Human erythr ocytes

Form

Lyophilized powder containing 25% sucrose, 3% dithiothreitol, and sodium phosphate buffer salts

EC Number

EC 1.11.1.9

CAS No.

9013-66-5

Activity

> 30 units/mg protein

pH Stability

8.8

Optimum pH

8.8

Pathway

Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Direct p53 effectors, organism-specific biosystem; Folate Metabolism, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem

Function

SH3 domain binding; endopeptidase inhibitor activity; glutathione peroxidase activity; glutathione peroxidase activity; oxidoreductase activity

Unit Definition

One unit will catalyze the oxidation by H₂O₂ of 1.0 μmole of reduced glutathione to oxidized glutathione per min at pH 7.0 at 25°C.

Storage and Shipping Information

Storage

−20°C