

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 8.8

Stability

Optimum 8.8

pH

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