

## 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 into 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 erythrocytes

**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 H<sub>2</sub>O<sub>2</sub> 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