

Native Bovine Glutathione Peroxidase

Product Information

Cat#	NATE-0322
Abbr	GSH-Px, Native (Bovine)
Alias	GSH-Px
Similar	GSH-Px
Species	Bovine
Source	Bovine erythr ocytes
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.
Applications	Glutathione peroxidase from bovine erythr ocytes was used as a positive control in cloning and characterization of full-length cDNAs encoding two glutathione peroxidases (GpXs) from <i>Globodera rost ochiensis</i> . It was used for the determination of glutathione peroxidase activity in human milk.
Form	Lyophilized powder containing 25% sucrose and 2.5% dithiothreitol with sodium phosphate buffer salts
Enzyme Commission Number	EC 1.11.1.9
Activity	> 300 units/mg protein
CAS No.	9013-66-5
Molecular Weight	mol wt 84.5 kDa
Unit Definition	One unit will catalyze the oxidation by H ₂ O ₂ of 1.0 μmole of reduced glutathione to oxidized glutathione per min at pH 7.0 at 25°C.
Storage	-20°C
Warnings	At the reported pH optimum of 8.8, we have found the activity to be approx. 10 times



Creative Enzymes

Diagnostic Enzymes

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that at pH 7.0. However, to remain consistent with literature and avoid complications arising from non-enzymatic oxidation of GSH, our unit is defined at pH 7.0.

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
