

Native Human GPX1

Cat. No. GPX1-8429H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human GPX1 was purified from Erythrocytes.
Species	Human
Source	Erythrocytes
Description	Peroxides in the cell can form highly reactive and damaging free radicals. Glutathione peroxidase (GPO) is a selenoenzyme with peroxidase activity, whose main biological purpose is the elimination of reactive oxygen species to protect the cell.
Form	Frozen in 4.3mM sodium phosphate buffer, pH 7.0, containing 0.2mM DTT and sucrose at 0.25 mg/ml.
Unit Definition	One unit will catalyse oxidation by Hydrogen Peroxide of 1.0 micromole of reduced glutathione to oxidised glutathione per minute at pH 7.0 at 25°C.
Concentration	>30 U/mg
Reconstitution	Use of a 0.1M sodium acetate buffer pH 4.5 is recommended.

GENE INFORMATION

Gene Name	GPX1 glutathione peroxidase 1 [Homo sapiens]
Official Symbol	GPX1

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Synonyms	GPX1; glutathione peroxidase 1; GPx-1; GSHPx-1; cellular glutathione peroxidase; GPXD; GSHPX1; MGC14399; MGC88245;
Gene ID	2876
mRNA Refseq	NM_000581
Protein Refseq	NP_000572
MIM	138320
UniProt ID	P07203
Chromosome Location	3p21.3
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;