

Recombinant Human GPX1, His-tagged

Cat. No. GPX1-29073TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Glutathione Peroxidase 1 , fused at the C terminus to a His tag; MWt: 25 kDa.
Species	Human
Source	E.coli
ProteinLength	201 amino acids
Description	This gene encodes a member of the glutathione peroxidase family. Glutathione peroxidase functions in the detoxification of hydrogen peroxide, and is one of the most important antioxidant enzymes in humans. This protein is one of only a few proteins known in higher vertebrates to contain selenocysteine, which occurs at the active site of glutathione peroxidase and is coded by UGA, that normally functions as a translation termination codon. In addition, this protein is characterized in a polyalanine sequence polymorphism in the N-terminal region, which includes three alleles with five, six or seven alanine (ALA) repeats in this sequence. The allele with five ALA repeats is significantly associated with breast cancer risk. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Conjugation	HIS
Molecular Weight	25.000kDa inclusive of tags
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 55mM Tris HCl, 150mM Sodium chloride, 1mM DTT, pH 8.2
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the glutathione peroxidase family.

GENE INFORMATION

Gene Name	GPX1 glutathione peroxidase 1 [Homo sapiens]
Official Symbol	GPX1
Synonyms	GPX1; glutathione peroxidase 1;
Gene ID	2876
mRNA Refseq	NM_000581
Protein Refseq	NP_000572
MIM	138320
Uniprot ID	P07203
Chromosome Location	3p21.3

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

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