

Recombinant Human GPX4, His-tagged

Cat. No. GPX4-29076TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Glutathione Peroxidase 4 , fused at the C terminus to a His tag; MWt: ~20 kDa by SDS Page.
Species	Human
Source	E.coli
ProteinLength	197 amino acids
Description	Glutathione peroxidase catalyzes the reduction of hydrogen peroxide, organic hydroperoxide, and lipid peroxides by reduced glutathione and functions in the protection of cells against oxidative damage. Human plasma glutathione peroxidase has been shown to be a selenium-containing enzyme and the UGA codon is translated into a selenocysteine. Through alternative splicing and transcription initiation, rat produces proteins that localize to the nucleus, mitochondrion, and cytoplasm. In humans, experimental evidence for alternative splicing exists; alternative transcription initiation and the cleavage sites of the mitochondrial and nuclear transit peptides need to be experimentally verified.
Conjugation	HIS
Molecular Weight	20.000kDa inclusive of tags
Tissue specificity	Present primarily in testis.

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Form	Lyophilised:Reconstitute in an appropriate buffer.
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 50mM 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	GPX4 glutathione peroxidase 4 (phospholipid hydroperoxidase) [Homo sapiens]
Official Symbol	GPX4
Synonyms	GPX4; glutathione peroxidase 4 (phospholipid hydroperoxidase); phospholipid hydroperoxide glutathione peroxidase, mitochondrial; MCSP; PHGPx;
Gene ID	2879
mRNA Refseq	NM_001039847
Protein Refseq	NP_001034936
MIM	138322
Uniprot ID	P36969

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**Chromosome
Location**

19p13.3

Pathway

Folate Metabolism, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; Selenium Metabolism and Selenoproteins, organism-specific biosystem;

Function

glutathione peroxidase activity; oxidoreductase activity; phospholipid-hydroperoxide glutathione peroxidase activity;

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