

Recombinant Human GPX1 Protein, His-tagged

Cat. No. GPX1-5307H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GPX1 (NP_000572, 1 a.a. - 203 a.a., U49C) full-length recombinant protein with His tag expressed in Escherichia coli.
Species	Human
Source	E.coli
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. [provided by RefSeq]
Form	Liquid
Molecular Mass	24.2 kDa
AA Sequence	MGSSHHHHHHSSGLVPRGSHMCAARLAAAAAAQSVYAFSARPLAGGEPVSLGSL RGKVLLIENVASLCGTTVRDYTQMNELQRRLLGPRGLVVLGFPCNQFGHQENAKNEE

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	ILNSLKYYVRPGGGFEPNFMLFEKCEVNGAGAHPLFAFLREALPAPSDDATALMTDPK LITWSPVCRNDVAWNFEKFLVGPDPVPLRRYSRRFQTIDIEPDIEALLSQGPSCA
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE
Storage	Store at -20 centigrade. For long term storage store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Concentration	0.5 mg/mL
Storage Buffer	In 20 mM Tris-HCl, 100 mM NaCl, pH 8.0. (30% glycerol, 2 mM DTT)

GENE INFORMATION

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

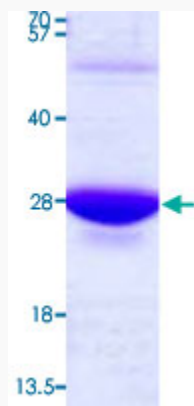
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UniProt ID

P07203

**Quality Control
Testing**

15% SDS-PAGE Stained with Coomassie Blue

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