

Recombinant Human GPX2, His-tagged

Cat. No. GPX2-29071TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-190 of Human Glutathione Peroxidase 2, with an N-terminal His tag. 210 amino acids with a predicted MWt of 22 kDa
Species	Human
Source	E.coli
ProteinLength	190 amino acids
Description	This gene is a member of the glutathione peroxidase family and encodes a selenium-dependent glutathione peroxidase that is one of two isoenzymes responsible for the majority of the glutathione-dependent hydrogen peroxide-reducing activity in the epithelium of the gastrointestinal tract. Studies in knockout mice indicate that mRNA expression levels respond to luminal microflora, suggesting a role of the ileal glutathione peroxidases in preventing inflammation in the GI tract.
Conjugation	HIS
Molecular Weight	24.100kDa inclusive of tags
Tissue specificity	Mostly in liver and gastrointestinal tract, not found in heart or kidney.
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	pH: 7.50 Constituents: 0.32% Tris HCl, 0.88% Sodium chloride, 0.02% DTT, 40% Glycerol
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAFIAKSFYD LSAISLDGEK VDFNTFRGRA VLIENVASLC GTTTRDFTQL NELQCRFPRR LVVLGFPCNQ FGHQENCQNE EILNSLKYYR PGGGYQPTFT LVQKCEVNGQ NEHPVFAYLK DKLPYPYDDP FSLMTDPKLI IWSPVRRSDV AWNFEKFLIG PEGEPFRRYS RTFPTINIEP DIKRLKVAI
Sequence Similarities	Belongs to the glutathione peroxidase family.

GENE INFORMATION

Gene Name	GPX2 glutathione peroxidase 2 (gastrointestinal) [Homo sapiens]
Official Symbol	GPX2
Synonyms	GPX2; glutathione peroxidase 2 (gastrointestinal); glutathione peroxidase 2; GSHPX GI;
Gene ID	2877
mRNA Refseq	NM_002083
Protein Refseq	NP_002074

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MIM	138319
Uniprot ID	P18283
Chromosome Location	14q24.1
Pathway	Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Folate Metabolism, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem;
Function	electron carrier activity; glutathione peroxidase activity; oxidoreductase activity;

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