

Recombinant Human GPX2, His-tagged

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

SPECIFICATION

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|---------------------------|---|
| 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 EILNSLKYVR PGGGYQPTFT LVQKCEVNGQ NEHPVFAYLK DKLPYPYDDP FSLMTDPKLI IWSPVRRSDV AWNFEKFLIG PEGEPFRRYS RTFPTINIEP DIKRLKVAI |
| Sequence Similarities | Belongs to the glutathione peroxidase family. |

GENE INFORMATION

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|------------------------|--|
| 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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