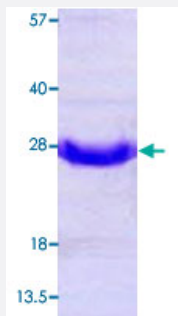


Full-Length

GPX2 (Human) Recombinant Protein

Catalog # P4538 Size 10 ug

Applications



Specification

Product Description	Human GPX2 (NP_002074, 1 a.a. - 190 a.a.) full-length recombinant protein with His tag expressed in <i>Escherichia coli</i> .
Sequence	MGSSHHHHHHSSGLVPRGSHMAFIKSFYDLSAISLDGEKVDFTFRGRAVLIENVASLCGTTTR DFTQLNELQCRFPRLVVLGFPCNQFGHQENCQNEEILNSLKYYRPGGGYQPTFTLVQKCEVNG QNEHPVFAYLKDKLPYPYDDPFSLMTDPKLIWSPVRRSDVAWNFEKFLIGPEGEPFRRYSRTFPT INIEPDIKRLKVAI
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	24.1
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Concentration	0.25 mg/mL
Purity	> 95% by SDS - PAGE
Quality Control Testing	15% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	In 20 mM Tris-HCl buffer, 0.15 M NaCl, pH7.5 (40% glycerol, 1 mM DTT).

Storage Instruction

Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — GPX2

Entrez GeneID [2877](#)

Protein Accession# [NP_002074](#)

Gene Name GPX2

Gene Alias GI-GPx, GPRP, GSHPX-GI, GSHPx-2

Gene Description glutathione peroxidase 2 (gastrointestinal)

Omim ID [138319](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations gastrointestinal glutathione peroxidase 2|glutathione peroxidase 2|glutathione peroxidase-related protein 2

Pathway

- [Arachidonic acid metabolism](#)
- [Glutathione metabolism](#)

Disease

- [Adenocarcinoma](#)
- [Adenoma](#)
- [Barrett Esophagus](#)
- [Cardiovascular Diseases](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Occupational Diseases](#)
- [Ovarian cancer](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)