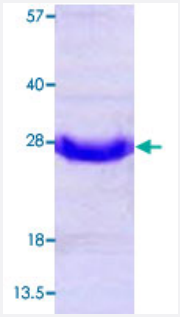
Full-Length

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 *Escherichia coli*.
Sequence	MGSSHHHHHHSSGLVPRGSHMAFIAKSFYDLSAISLDGEKVDFNTFRGRAVLIENVASLCGTTTR DFTQLNELQCRFPRRLVVLGFPCNQFGHQENCQNEEILNSLKYVRPGGGYQPTFTLVQKCEVNG QNEHPVFAYLKDKLPYPYDDPFSLMTDPKLIIWSPVRRSDVAWNFEKFLIGPEGEPFRRYSRTFPT INIEPDIKRLLKVAI
Host	Escherichia coli
Theoretical MW (kDa)	24.1
Form	Liquid
Preparation Method	*Escherichia coli* 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).

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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 glutathion e-dependent hydrogen peroxide-reducing activity in the epithelium of the gastrointestinal tract. Stu dies in knockout mice indicate that mRNA expression levels respond to luminal microflora, sugge sting 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

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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

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