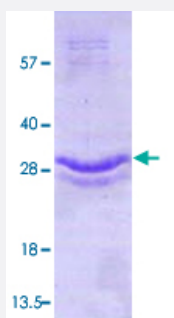


GPX3 (Human) Recombinant Protein

Catalog # P5010

Size 50 ug

Applications



Specification

Product Description

Human GPX3 (NP_002075, 21 a.a. - 226 a.a.) partial recombinant protein with His tag expressed in *Escherichia coli*.

Sequence

MGSSHHHHHHSSGLVPRGSHMQSRGQEKSKMDCHGGISGTIYEGALTIDGEEYIPFKQYAGKYV
LFVNVASYCGLTGQYIELNALQEELAPFGLVILGFPCNQFGKQEPGENSEILPTLKYYVRPGGGFVP
NFQLFEKGDVNGEKEQKFYTLKNSCPPTSELLGTSDFLWPEPMKVHDIRWNFEKFLVGPDGPI
MRWHHRTTVSNVKMDILSYMRRQAALGVKPK

Host

Escherichia coli

Theoretical MW (kDa)

25.7

Form

Liquid

Preparation Method

Escherichia coli expression system

Purification

Conventional Chromatography

Concentration

0.25 mg/mL

Purity

> 85% by SDS-PAGE

Quality Control Testing

Loading 3 ug protein in 15% SDS-PAGE

Storage Buffer

In 20 mM Tris-HCl buffer, 0.15 M NaCl, pH 8.0 (40% glycerol, 1 mM DTT, 50 mM Imidazole).

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

- [SDS-PAGE](#)

Gene Info — GPX3

Entrez GeneID [2878](#)

Protein Accession# [NP_002075](#)

Gene Name GPX3

Gene Alias GPx-P, GSHPx-3, GSHPx-P

Gene Description glutathione peroxidase 3 (plasma)

Omim ID [138321](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene product belongs to the glutathione peroxidase family, which functions in the detoxification of hydrogen peroxide. It contains a selenocysteine (Sec) residue at its active site. The selenocysteine is encoded by the UGA codon, which normally signals translation termination. The 3' UTR of Sec-containing genes have a common stem-loop structure, the sec insertion sequence (SECIS), which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. [provided by RefSeq]

Other Designations extracellular glutathione peroxidase|glutathione peroxidase 3

Pathway

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

Disease

- [Adenoma](#)

- [Anoxia](#)
- [Bipolar Disorder](#)
- [Brain Ischemia](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cerebrovascular Accident](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hepatitis](#)
- [Hodgkin Disease](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Occupational Diseases](#)
- [Ovarian cancer](#)
- [Pulmonary Disease](#)
- [Stomach Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)