

Recombinant Human GPX3, His-tagged

Cat. No. GPX3-29077TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 93-226 of Human Glutathione Peroxidase 3 with an N terminal His tag. Predicted MWt: 16 kDa;
Species	Human
Source	E.coli
ProteinLength	93-226 a.a.
Description	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.
Conjugation	HIS
Tissue specificity	Secreted in plasma.
Form	Lyophilised:Reconstitute with 88 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	GLVILGFPCNQFGKQEPGENSEILPTLKYVRPGGGFVPNF QLFEKGDVNGEKEQKF YTFLKNSCPPTSELLGTSDFLF WEPMKVHDIRWNFEKFLVGPDGIPIMRWHHRRTT SNVK MDILSYMRRQAALGVKRRK
Sequence Similarities	Belongs to the glutathione peroxidase family.

GENE INFORMATION

Gene Name	GPX3 glutathione peroxidase 3 (plasma) [Homo sapiens]
Official Symbol	GPX3
Synonyms	GPX3; glutathione peroxidase 3 (plasma); glutathione peroxidase 3;
Gene ID	2878
mRNA Refseq	NM_002084
Protein Refseq	NP_002075
MIM	138321
Uniprot ID	P22352
Chromosome Location	5q23
Pathway	Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Folate Metabolism, organism-specific biosystem;

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Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem;

Function

glutathione binding; glutathione peroxidase activity; glutathione peroxidase activity; oxidoreductase activity; selenium binding;

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