

AR50254PU-S

Human Glutathione peroxidase 3 / GPX3 (21-226, His-tag) - Purified

Alternate names:	Extracellular glutathione peroxidase, GPX-3, GPXP, GPXP, GPx-3, GPx-P, GSHPXP, GSHPx-3, GSHPx-P, Glutathione peroxidase-3, Plasma glutathione peroxidase
Quantity:	50 µg
Concentration:	0.25 mg/ml (determined by Bradford assay)
Background:	GPX3, also known as glutathione peroxidase 3, belongs to the glutathione peroxidase family, which functions in the detoxification of hydrogen peroxide. GPX3 protects cells and enzymes from oxidative damage, by catalyzing the reduction of hydrogen peroxide, lipid peroxides and organic hydroperoxide, by glutathione. This protein is one of only a few proteins known in higher vertebrates to contain selenocysteine, which occurs at the active site of glutathione peroxidase and is coded by the nonsense (stop) codon TGA.
Uniprot ID:	P22352
NCBI:	NP_002075
GeneID:	2878
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >90% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT, 50mM Imidazol
Description:	Recombinant human GPX3(U73C) protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. AA Sequence: MGSSHHHHHH SSGLVPRGSH MQSRGQEKSK MDCHGGISGT IYEYGALTID GEEYIPFKQY AGKYVLFVNV ASYCGLTGQY IELNALQEEL APFGLVILGF PCNQFGKQEP GENSEILPTL KYVRPGGGFV PNFQLFEKGD VNGEKEQKFY TFLKNSCPPT SELLGTSDRL FWEPMKVHDI RWNFEKFLVG PDGIPIMRWH HRTTVSNVKM DILSYMRRQA ALGVKRK Molecular weight: 25.7 kDa (227aa) confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Esworthy R.S., et al. (1991) Arch. Biochem. Biophys. 286:330-336 2. Comhair S.A.A., et al. (2000) Am. J. Respir. Cell Mol. Biol. 23:350-354

Pictures:

15% SDS-PAGE (3ug)

