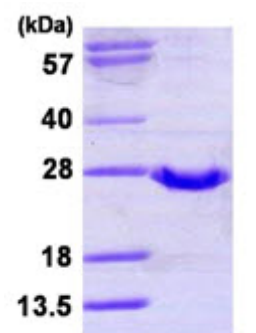


AR50150PU-S

Human Glutathione peroxidase 2 / GPX2 (1-190, His-tag) - Purified

Alternate names:	GPRP, GPx-2, GSHPx-2, Gastrointestinal glutathione peroxidase, Glutathione peroxidase-related protein 2
Quantity:	10 µg
Concentration:	0.25 mg/ml (determined by Bradford assay)
Background:	GPX2, also known as glutathione peroxidase 2, belongs to the glutathione peroxidase family, consisting of eight known glutathione peroxidases (Gpx1-8) in humans. Glutathione peroxidase functions in the detoxification of hydrogen peroxide, and is one of the most important antioxidant enzymes in humans. GPX2 could play a major role in protecting mammals from the toxicity of ingested organic hydroperoxides. 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:	P18283
NCBI:	NP_002074
GeneID:	2877
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >95% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer (pH7.5) containing 40% glycerol, 0.15M NaCl, 1mM DTT
Description:	Recombinant human GPX2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. AA Sequence: MGSSHHHHHH SSGLVPRGSH MAFIAKSFYD LSAISLDGEK VDFNTFRGRA VLIENVASLC GTTTRDFTQL NELQCRFP RR LVVLGFPCNQ FGHQENCQNE EILNSLKYVR PGGGYQPTFT LVQKCEVNGQ NEHPVFAYLK DKLPYPYDDP FSLMTDPKLI IWSPVRRSDV AWNFEKFLIG PEGEPFRRYS RTFPTINIEP DIKRLKVAI Molecular weight: 24.1 kDa (210aa), 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:	Chu F.-F., et al. (1993) J. Biol. Chem. 268:2571-2576 Kelner M.J., et al. (2000) Gene. 248:109-116

Pictures:



15% SDS-PAGE (3ug)