Recombinant human Glutathione Peroxidase 3/GPX3 (U73C) protein

Catalog Number: ATGP1429

PRODUCT INFORMATION

Expression system
E.coli

Domain
21-226aa

UniProt No.
P22352

NCBI Accession No.
NP_002075

Alternative Names
Glutathione peroxidase 3, GPx-P, GSHPx-3, GSHPx-P, Extracellular glutathione peroxidase, Plasma glutathione peroxidase, GPXP, Selenoprotein GPX3

PRODUCT SPECIFICATION

Molecular Weight
25.7 kDa (227aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

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

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
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. Recombinant human GPX3 (u73C)

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protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography

Amino acid Sequence

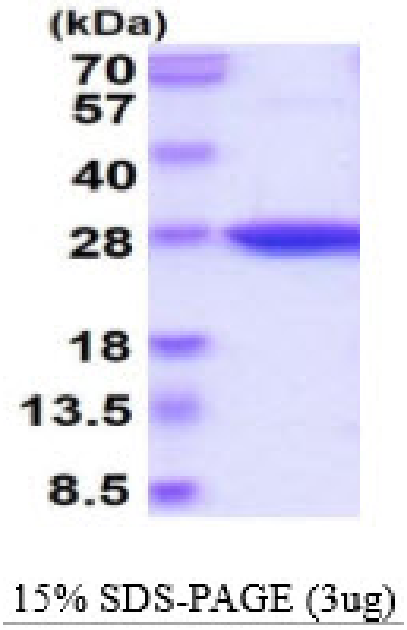
<MGSSHHHHHH SSGLVPRGSH M>QSRGQEKSK MDCHGGISGT IYEYGALTID GEEYIPFKQY AGKYVLFVNV ASYCGLTGQY IELNALQEEL APFGLVILGF PCNQFGKQEP GENSEILPTL KYVRPGGGFV PNFQLFEKGD VNGEKEQKFY TFLKNSCPPT SELLGTSDRL FWEPMKVHDI RWNFEKFLVG PDGIPIMRWH HRTTVSNVKM DILSYMRRQA ALGVKRK

General References

Esworthy R.S., et al. (1991) Arch. Biochem. Biophys. 286:330-336
Comhair S.A.A., et al. (2000) Am. J. Respir. Cell Mol. Biol. 23:350-354

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.