Recombinant human Glutaredoxin 5/GLRX5 protein

Catalog Number: ATGP0544

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-157aa

UniProt No.
Q86SX6

NCBI Accession No.
NP_057501

Alternative Names
Glutaredoxin-related protein 5 mitochondrial, Monothiol glutaredoxin-5, Glutaredoxin 5 homolog, GLRX5, C14orf87, PR01238, GRX5

PRODUCT SPECIFICATION

Molecular Weight
18.8 kDa (177aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl

Purity
> 85% 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
GLRX5 is small redox enzymes of approximately one hundred amino-acid residues which uses glutathione as a cofactor. This protein is oxidized by substrates, and reduced non-enzymatically by glutathione. It is involved in the biogenesis of iron-sulfur clusters, which are required for normal iron homeostasis. Recombinant human GLRX5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques

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Amino acid Sequence

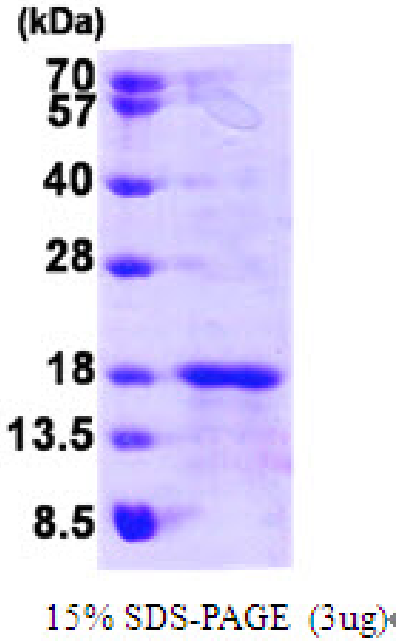
MGSSHHHHHH SSGLVPRGSH MSGSLGRAAA ALLRWGRGAG GGGLWGPGVR AAGSGAGGGG SAEQLDALVK KDKVVVFLKG TPEQPQCGFS NAVVQILRLH GVRDYAAYNV LDDPELRQGI KDYSNWPTIP QVYLNGEFVG GCDILLQMHQ NGDLVEELKK LGIHSALLDE KKDQDSK

General References

Holmgren A., et al. (1988) FEMS Microbiol. Rev. 4 (4): 271-297.
Holmgren A., et al. (1988) Biochem. Soc. Trans. 16 (2): 95-96.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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