

Recombinant E.coli tpx protein

Catalog Number: ATGP1057

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-168aa

UniProt No.

P0A862

NCBI Accession No.

NP_415840

Alternative Names

Thiol peroxidase, Peroxiredoxin tpx , Scavengase p20, Thioredoxin peroxidase, Thioredoxin-dependent peroxiredoxin, yzzj

PRODUCT SPECIFICATION

Molecular Weight

19.9 kDa (188aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.

Purity

> 95% 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

TPX, also known as lipid hydroperoxide peroxidase, is a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. This protein may play an important role in thioredoxin peroxidase activity. Recombinant E. coli TPX 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 MSQTVHFQGN PVTVANSIPQ AGSKAQFTTL VAKDLSDVTL GQFAGKRKVL NIFPSIDTGV
CAASVRKFNQ LATEIDNTVV LCISADLPFA QSRFCGAEGL NNVITLSTFR NAEFLQAYGV AIADGPLKGL AARAVVVIDE
NDNVIFSQLV DEITTEPDYE AALAVLKA

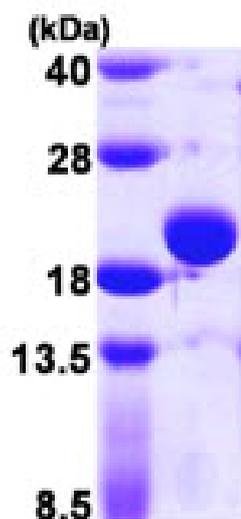
General References

Hambarde S., et al. (2010) Bioin formation. 4(9):399-404.

Touchon M., et al. (2009) PLoS Genet. 5(1):e1000344.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)