Recombinant human Peroxiredoxin 5/PRDX5 protein

Catalog Number: ATGP3798

PRODUCT INFORMATION

Expression system
E.coli

Domain
53-214aa

UniProt No.
P30044

NCBI Accession No.
NP_036226

Alternative Names
Alu corepressor 1, Antioxidant enzyme B166, AOEB166, Liver tissue 2D-page spot 71B, PLP, Peroxiredoxin V, Prx-V, Peroxisomal antioxidant enzyme, TPx type VI, Thioredoxin peroxidase PMP20, Thioredoxin-dependent peroxiredoxin 5, ACR1, AOEB166, PRXV, SBBI10

Additional Information
ATGP0339 has been replaced with a catalog number ATGP3798.

PRODUCT SPECIFICATION

Molecular Weight
17 kDa (162aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM HEPES buffer (pH 7.4)

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Specific activity is >9,000pmol/min/ug. Enzymatic activity is defined as the amount of hydroperoxide that 1ug of enzyme can reduce at 25C for 1minute.

Tag
Non-Tagged

Application
SDS-PAGE, Enzyme Activity

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

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repeated freezing and thawing cycles.

BACKGROUND

Description

Peroxiredoxin 5, also known as PRDX5, is a member of the peroxiredoxin family of antioxidant enzymes, which reduces hydrogen peroxide and alkyl hydroperoxides with reducing equivalents provided through the thioredoxin system. This protein may play an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. It has been reported that PRDX5 is involved in intracellular redox signaling. Recombinant human PRDX5, was expressed in E.coli and purified by using conventional chromatography techniques.

Amino acid Sequence

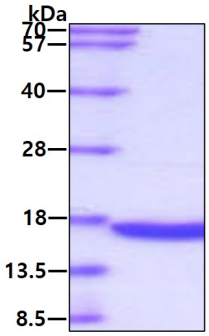
MAPIKVGDAI PAVEVFEGEP GNKVNLAELF KGKKGVLFGV PGAFTPGCSK THLPGFVEQA EALKAKGVQV VACLSVNDAF VTGEWGRAHKAEGKVRLLAD PTGAFGKETD LLLDDSLVSI FGNRRLKRFS MVVQDGIVKA LNVEPDGTGL TCSLAPNIIS QL

General References

Yamashita H., et al. (1999) J Biol Chem. 274(42):29897-904Declercg JP., et al. (2001) J Mol Biol. 311(4):751-9

DATA

SDS-PAGE



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