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PRDX5 Human

Catalog #:ENPS-433

For research use only.

Description:PRDX5 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 162 amino acids (53-214 a.a.) and having a molecular mass of 17 kDa.The PRDX5 is purified by proprietary chromatographic techniques.

Synonyms: Peroxiredoxin-5 mitochondrial, Prx-V, Peroxisomal antioxidant enzyme, Thioredoxin reductase, Thioredoxin peroxidase PMP20, Antioxidant enzyme B166, TPx type VI, Liver tissue 2D-page spot 71B, Alu corepressor 1, PLP, ACR1, B166, PRXV, PMP20, PRDX6, SBBI10,

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MAPIKVGDAI PAVEVFEGEP GNKVNLAELF KGKKGVLFGV PGAFTPGCSK THLPGFVEQA EALKAKGVQV VACLSVNDAF VTGEWGRAHK AEGKVRLLAD PTGAFGKETD LLLDDSLVSI FGNRRLKRFS MVVQDGIVKA LNVEPDGTGL TCSLAPNIIS QL.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
The PRDX5 solution contains 20mM HEPES buffer (pH 7.4).

Stability:
PRDX5 althoμgh stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
PRDX5 belongs to the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides with reducing equivalents supplied throμgh the thioredoxin system. PRDX5 has an antioxidant protective function in different tissues under normal conditions and during inflammatory processes. Peroxiredoxin-5 interacts with peroxisome receptor 1 and is involved in intracellular redox signaling. PRDX5 is involved in intracellular redox signaling. Peroxiredoxin-5 is a significant antioxidant protein of lung epithelial cells for its expression in the human lung increases during inflammation. PRDX5 expression is upregulated in osteoarthritis. PRDX5 may be significant in mitochondrial genome stability. Peroxiredoxin-5 has a protective role in human tendon cells against oxidative stress by reducing apoptosis and upholding collagen synthesis.

Biological Activity:
The specific activity was found to be approximately 117-136 pmole/min/

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