

RPPB2181

Product Information Protein Information

Product SKU:

RPPB2181

Accession:

P30044

Host:

Escherichia Coli.

Protein 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.

Appearance:

Sterile Filtered colorless solution.

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, AOEB166, MGC117264, MGC142283, MGC142285, PRDX5.

Formulation:

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

Purity:

Greater than 95.0% as determined by SDS-PAGE.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Amino Acid Sequence:

MAPIKVGDAI PAVEVFEGEP GNKVNLAELF KGKKGVLFGV PGAFTPGCSK THLPGFVEQA EALKAKGVQV
VACLSVNDAF VTGEWGRAHK AEGKVRLLAD PTGAFGKETD LLLDDSLVSI FGNRRLLKRFS MVVQDGIVKA
LNVEPDGTGL TCSLAPNIIS QL.

Biological Activity:

The specific activity was found to be approximately 117-136 pmole/min/μg. The enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX5 and peroxide for 20 min at room temperature. Specific activity is defined as the amount of hydroperoxide that 1ug of enzyme can reduce at 25°C for 1 minute.