

Peroxiredoxin-5 Human Recombinant

Item Number	rAP-1494
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 core-pressor 1, PLP, ACR1, B166, PRXV, PMP20, PRDX6, SBB110,
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.
Uniprot Accesion Number	P30044
Amino Acid Sequence	MAPIKVGDAI PAVEVFEGEP GNKVNLAELF KGKKGVLFV PGAFTPGCSK THLPGFVEQA EALKAKGVQV VACLSVNDAF VTGEWGRAHK AEGKVRLLAD PTGAFGKETD LLLDDSLVSI FGNRRLL- KRFS MVVQDGIVKA LNVEPDGTGL TCSLAPNIIS QL.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. 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.
Formulation and Purity	The PRDX5 solution contains 20mM HEPES buffer (pH 7.4). Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	
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 a
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**