

Peroxiredoxin-3 Human Recombinant

Item Number	rAP-1493
Synonyms	AOP1, MER5, AOP-1, SP-22, PRO1748, MGC24293, MGC104387, PRDX3, Thioredoxin-dependent peroxide reductase mitochondrial, Peroxiredoxin-3, PRX III, Antioxidant protein 1, Protein MER5 homolog, HBC189.
Description	PRDX3 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 195 amino acids (63-256 a.a.) and having a molecular mass of 21.5 kDa. The PRDX3 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P30048
Amino Acid Sequence	MPAVTQHAPY FKGTAVVNGE FKDLSLDDFK GKYLVLFFYP LDFTFVCPT EIVAFSDKANE FHDVNCEVVA VSVDSHFSL AWINTPRKNG GLGHMNIALL SDLTQISR D YGVLLEGSGL ALRGLFIIDP NGVIKHL SVN DLPVGRSVEE TLRLVKAFQY VETHGEVCPA NWT PDSPTIK PSPAASKEYF QKVNQ.
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). Avoid multiple freeze-thaw cycles.
Formulation and Purity	The PRDX3 solution contains 20mM Tris-HCl pH-8, & 10% glycerol. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	The specific activity was found to be approximately 82-83 pmole/min/µg. The enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX3 and peroxide for 20 min at room temperature. Specific activity is defined as the amount of peroxide reduced per minute per microgram of protein.
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**