

Peroxiredoxin-4 Human Recombinant

Item Number	rAP-1496
Synonyms	EC 1.11.1.15, AOE37-2, Peroxiredoxin-IV, Prx-IV, Thioredoxin peroxidase AO372, Thioredoxin-dependent peroxide reductase A0372, Antioxidant enzyme AOE372.
Description	PRDX4 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 255 amino acids (38-271 a.a.) and having a molecular mass of 28.8kDa. PRDX4 protein is fused to a 20 amino acid His-Tag at N-terminus and purified by standard chromatog-
Uniprot Accession Number	Q13162
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MWETEERPRT REEECHFYAG QQVYPGEASR VSVADHSLHL SKA-KISKPAP YWEGTAVIDG EFKELKLDY RGKYLVEFFY PLDFTFVCPT EIIAFGDRLE EFRSINTEVV ACSVDSQFTH LAWINTPRRQ GGLGPIRIPL LSDLTHQISK DYGVYLEDSG HTLRGLFIID DKGILRQITL NDLPVGRSVD ETLRLVQAFQ YTDKHGEVCP AGWKPGSETI IPDPAGKLY FDKLN.
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	PRDX4 Human solution containing 20mM Tris-HCl pH-8 & 10% glycerol. Greater than 95% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	Specific activity: approximately 230-310 pmole/min/µg. Enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX4 and peroxide for 20 min at room temperature. Specific activity is defined as the amount of hydroperoxide t
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**