

Peroxiredoxin-6 Human Recombinant

Item Number	rAP-1495
Synonyms	Peroxiredoxin-6, Antioxidant protein 2, 1-Cys peroxiredoxin, Acidic calcium-independent phospholipase A2, Non-selenium glutathione peroxidase, 24 kDa protein, Liver 2D page spot 40, Red blood cells page spot 12, 1-Cys PRX, aiPLA2, NSGPx, PRDX6, AOP2, KIAA
Description	Peroxiredoxin- 6 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 244 amino acids (1-224 a.a.) and having a molecular mass of 27.1kDa.The Peroxiredoxin-6 is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P30041
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MPGGLLLGDV APNFEANTTV GRIRFHDFLG DSWGILFSHP RDFTPVCTTE LGRAAKLAPE FAKRNVKLI A LSIDSVEDHL AWSKDINAYN CEEPTEKLPF PIIDDRNREL AILLGMLDPA EKDEKGMPTV ARVVFVFGPD KKLKLSILYP ATTGRNFDEI LRVVISLQLT AEKRVATPVD WKDGDSVMVL PTIPEEEAKK LFPKGVFTKE LPSGKKYLRY TPQP.
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 Peroxiredoxin-6 solution contains 20mM Tris-HCl buffer (pH8.0) and 20% Glycerol. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	The specific activity was found to be approximately 95-120 pmole/min/µg. The enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX6 and peroxide for 20 min at room temperature. Specific activity is defined as the am
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**