

Human Recombinant PRDX 6

CATALOG #: 6322-100 100 µg

ALTERNATE NAMES: Peroxiredoxin 6, 1-Cys, aiPLA2, AOP2, NSGPx, p29, PRX.

SOURCE: E.Coli

PURITY: > 95% by SDS - PAGE

MOL. WEIGHT: 27.1 kDa (244 aa – 1-224 aa + His Tag (NT)).

FORMULATION: 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol.

STORAGE CONDITIONS:

Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:

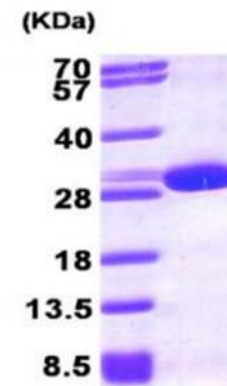
Peroxiredoxin 6, also known as PRDX 6, is a member of the thiol-specific antioxidant protein family. This protein is a bifunctional enzyme with two distinct active sites. It is involved in redox regulation of the cell and can reduce H₂O₂ and short chain organic, fatty acid, and phospholipid hydroperoxides. It may play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury.

AMINO ACID SEQUENCE:

MGSSHHHHHH SSGLVPRGSH MPGGLLLGDV APNFEANTTV GRIRFHDFLG
 DSWGILFSHP RDFTPVCTTE LGRAAKLAPE FAKRNVKLI A LSIDSVEDHL AWSKDINAYN
 CEEPTKLPF PIIDDRNREL AILLGMLDPA EKDEKMPVT ARVVFVFGPD KKLKLSILYP
 ATTGRNFDEI LRVVISLQLT AEKRVATPVD WKDGDSVMVL PTIPEEEAKK LFPKGVFTKE
 LPSGKKYLRY TPQP

BIOLOGICAL ACTIVITY:

Specific activity: approximately 95-120 pmole/min/µg. Enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX 6 and peroxide for 20 min at room temperature. Specific activity is defined as the amount of hydroperoxide that 1 µg of enzyme can reduce at 25°C for 1 minute.



15% SDS-PAGE (3µg)

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RELATED PRODUCTS:

- Human Recombinant PRDX 2 (Cat. No. 6319-100)
- Human Recombinant PRDX 3 (Cat. No. 6320-100)
- Human Recombinant PRDX 5 (Cat. No. 6321-100)
- Human Recombinant PRDX 1 (Cat. No. 6323-100)
- Human Recombinant PRDX 4 (Cat. No. 6324-100)
- Human Recombinant Thioredoxin 1 (Cat. No. 6305-100)
- Human Recombinant Thioredoxin 2 (Cat. No. 6318-100)

FOR RESEARCH USE ONLY! Not to be used in humans.