BioVision

For research use only

Human Recombinant PRDX 1

CATALOG #:	6323-100 100 µg
ALTERNATE NAMES:	Peroxiredoxin 1, MSP23, NKEFA, PAG, PAGA, PAGB, PRX1, PRXI, TDPX2, Thioredoxin peroxidase 2.
SOURCE:	E.Coli
PURITY:	> 90% by SDS - PAGE
MOL. WEIGHT:	24 kDa (219 aa – 1-199 aa + His Tag (NT)).
FORMULATION:	1 mg/ml solution in 20 mM Tris-HCl buffer (pH 7.5) 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-1 in humans is encoded by the PRDX1 gene. This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8 (+) T-cells. It protein may also have a proliferative effect and play a role in cancer development or progression.

AMINO ACID SEQUENCE:
MGSSHHHHHH SSGLVPRGSH MSSGNAKIGH PAPNFKATAV MPDGQFKDIS LSDYKGKYVV FFFYPLDFTF VCPTEIIAFS DRAEEFKKLN CQVIGASVDS HFCHLAWVNT PKKQGGLGPM NIPLVSDPKR TIAQDYGVLK ADEGISFRGL FIIDDKGILR QITVNDLPVG RSVDETLRLV QAFQFTDKHG EVCPAGWKPG SDTIKPDVQK SKEYFSKQK

BIOLOGICAL ACTIVITY:
Specific activity: approximately 600-670 pmole/min/µg. Enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX 1 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.
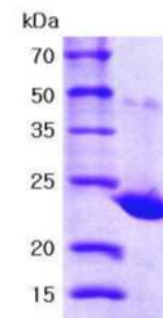
15% SDS-PAGE (3ug)

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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 6 **(Cat. No. 6322-100)**
- 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.

Gentaur