

PRDX1, 1-199aa, Human, His tagged, Recombinant, E.coli

Cat.NO.: TP03512

3th Edition

Synonyms: Peroxiredoxin 1, MSP23, NKEFA, PAG, PAGA, PAGB, PRX1, PRXI, TDPX2, Thioredoxin peroxidase 2.

Description: PRDX1 is a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. This protein is also known to be important to protect red blood cells against reactive oxygen species and in tumor prevention. Recombinant human PRDX1, fused to His-tag at N-terminus, was expressed in E.coli and purified by conventional chromatography techniques.

Form: Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 20% glycerol.

Molecular Weight: 24 kDa (219 aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMSSGNAKIGH PAPNFKATAVMPDGQFKDISLSDYKGYVFFFYPLDFTFVCPT
EIAFSDRAEEFKKLNQCQVIGASVDSHFCHLAWVNTPKKQGGLGPMNIPLVSDPKRTIAQDYGV LKADEGISFRGLFIID
DKGILRQITVNDLPVGRSVDETLRLVQAFQFTDKHGEVCPAGWKPGSDTIKPDVQKSKEYFSKQK

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: 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.