

**Peroxiredoxin 3, 63-256aa, Human, Recombinant, E.coli**

**Cat.NO.: TP03353**

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3th Edition

**Synonyms:** Thioredoxin-dependent peroxide reductase, mitochondrial, PRDX3, PRX III, Antioxidant protein 1 (AOP-1).

**Description:** Peroxiredoxin 3, also known as PRDX3, is a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. Peroxiredoxin 3 is specifically localized in mitochondria and believed to play important roles in the regulation of cellular redox status by serving as a primary line of defense against H<sub>2</sub>O<sub>2</sub> produced during respiration.

**Form:** In 20 mM Tris-HCl buffer (pH8.0) containing 10% glycerol

**Molecular Weight:** 21.5 kDa (195aa), confirmed by MALDI-TOF

**Sequences:**

MPAVTQHAPYFKGTAVVNGEFKDLSDDFKGGKYLVLFFYPLDFTFVCPTEIVAFSDKANEFHVDNCEVVAVSVDSH  
FSHLAWINTPRKNGGLGHMNIALLDLTKQISRDYGVLLGSGLALRGLFIIDPNGVIKHLVNDLPVGRSVEETLRLV  
KAFQYVETHGEVCPANWTPDSPTIKPSPAASKEYFQKVNQ

**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.