

Human PRDX3 Recombinant Protein



RPPB2179

Product Information Protein Information

Product SKU:

RPPB2179

Accession:

P30048

Host:

Escherichia Coli.

Protein description:

PRDX3 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 195 amino acids (63-256 a.a.) and having a molecular mass of 21.5 kDa. The PRDX3 is purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered colorless solution.

Synonyms:

AOP1, MER5, AOP-1, SP-22, PRO1748, MGC24293, MGC104387, PRDX3, Thioredoxin-dependent peroxide reductase mitochondrial, Peroxiredoxin-3, PRX III, Antioxidant protein 1, Protein MER5 homolog, HBC189.

Formulation:

The PRDX3 solution contains 20mM Tris-HCl pH-8, & 10% glycerol.

Purity:

Greater than 95.0% as determined by SDS-PAGE.

Stability:

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.

Amino Acid Sequence:

MPAVTQHAPY FKGTAVVNGE FKDLSLDDFK GKYLVLFFYP LDFTFVCPT EIVAFSDKANE FHDVNCEVVA
VSVDSHFSL AWINTPRKNG GLGHMNIALL SDLTKQISR D YGVLLEGSGL ALRGLFIIDP NGVIKHL SVN
DLPVGRSVEE TLRLVKAFQY VETHGEVCPA NWTPDSPTIK PSPAASKEYF QKVNQ.

Biological Activity:

The specific activity was found to be approximately 82-83 pmole/min/μg. The enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX3 and peroxide for 20 min at room temperature. Specific activity is defined as the amount of hydroperoxide that 1μg of enzyme can reduce at 25°C for 1 minute.