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PRDX3 Human

Catalog #:ENPS-426

For research use only.

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.

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.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MPAVTQHAPY FKGTAVVNGE FKDLSLDDFK GKYLVLFFYP LDFTFVCPTE IVAFSDKANE FHDVNCEVVA VSVDSHFSHL AWINTPRKNG GLGHMNIALL SDLTKQISRD YGVLLEGSGL ALRGLFIIDP NGVIKHLSVN DLPVGRSVEE TLRLVKAFQY VETHGEVCPA NWTPDSPTIK PSPAASKEYF QKVNQ.

Purity: Greater than 95.0% as determined by SDS-PAGE.

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

Stability:
PRDX3 althoμgh stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
PRDX3 is part of the peroxiredoxin family of antioxidant enzymes, that reduces hydrogen peroxide and alkyl hydroperoxides. PRDX3 is particularly located in the mitochondria and involved in the regulation of cellular redox status by serving as a primary line of defense against H2O2 produced during respiration. PRDX3 is a significant regulator of the abundance of mitochondrial H(2)O(2), which itself promotes apoptosis in cooperation with other mediators of apoptotic signaling. PRDX3 mitochondrial protein is significantly decreased in Alzheimer Disease and Down Syndrome.

Biological Activity:
The specific activity was found to be approximately 82-83 pmole/min/

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