
Product Data Sheet

Product Name: PRDX2 Rat
 Cat. No.: GP22154
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Peroxiredoxin-2; Prdx2; Prdx; Thiol-specific antioxidant protein; TSA; Thioredoxin peroxidase 1; Thioredoxin-dependent peroxidoreductase 1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHTMASGNA HIGKPAPDFT GTAVVDGAFK EIKLSDYRGK YVVLFFYPLDFTFVCPTEII AFSDHAEDFR KLGCEVLGVS VDSQFTHLAW INTPRKEGGL GPLNIPLLD VTKSLSQNYGV LKNDEGIAY RGLFIIDAKG VLRQITVNDL PVGRSVDEALRLVQAFQYTD EHGEVCPAGW KPGSDTIKPN VDDSKYFSK HN.		
Formulation	PRDX2 protein solution (1mg/ml) containing Phosphate Buffered Saline (pH 7.4), 10% glycerol and 1mM DTT.		

Introduction

PRDX2 is part of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. PRDX2 takes part as an antioxidant protective role in cells, and contributes to the antiviral activity of CD8(+) T-cells. PRDX2 has proliferative effect in cancer development or progression. If PRDX2 protection is insufficient against peroxidases, the DNA damage results in neurological disease such as Alzheimer's or DNA damage leading to cancer.

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.

Background

PRDX2 Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 222 amino acids (1-198 a.a) and having a molecular mass of

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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24.3kDa.PRD_X2 is fused to a 24 amino acid His-tag at N-terminus& purified by proprietary chromatographic techniques.

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