

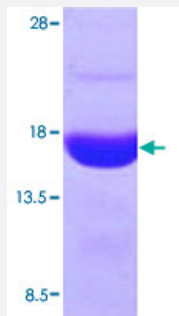
Bioactive

PRDX5 (Human) Recombinant Protein

Catalog # P3489

Size 50 ug

Applications



Specification

Product Description	Human PRDX5 (NP_036226, 53 a.a. - 214 a.a.) partial recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	MAPIKVGDAIPAVEVFEGEPGNKVNLAELFKGKKGVLFGVPGAFTPGCSKTHLPGFVEQAEALK AKGVQVVACLSVNDAFVTGEWGRAHKAEGKVRLLADPTGAFGKETDLLDDSLVSIFGNRRLLKR FSMVVDGIVKALNVEPDGTGLTCSLAPNIISQL
Host	Escherichia coli
Theoretical MW (kDa)	17
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Conventional Chromatography
Concentration	1 mg/mL
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)

Activity	Specific activity: >9,000 pmol/min/ug. Enzymatic activity is defined as the amount of hydroperoxide th at 1 ug of enzyme can reduce at 25°C for 1 minute.
Quality Control Testing	Loading 3 ug protein in 15% SDS-PAGE
Storage Buffer	In 20 mM HEPES, pH 7.4.
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — PRDX5

Entrez GeneID	25824
Protein Accession#	NP_036226
Gene Name	PRDX5
Gene Alias	ACR1, AOEB166, B166, MGC117264, MGC142283, MGC142285, PLP, PMP20, PRDX6, PRX V, SBBI10
Gene Description	peroxiredoxin 5
Omim ID	606583
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. This protein interacts with peroxisome receptor 1. The crystal structure of this protein in its reduced form has been resolved to 1.5 angstrom resolution. This gene uses alternate in-frame translation initiation sites to generate mitochondrial or peroxisomal/cytoplasmic forms. Three transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq]
Other Designations	Alu co-repressor 1 TPx type VI antioxidant enzyme B166 liver tissue 2D-page spot 71B peroxisomal antioxidant enzyme thioredoxin peroxidase PMP20

Disease

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