

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>Escherich ia coli</i> .
Sequence	MAPIKVGDAIPAVEVFEGEPGNKVNLAELFKGKKGVLFGVPGAFTPGCSKTHLPGFVEQAEALK AKGVQVVACLSVNDAFVTGEWGRAHKAEGKVRLLADPTGAFGKETDLLLDDSLVSIFGNRRLKR FSMVVQDGIVKALNVEPDGTGLTCSLAPNIISQL
Host	Escherichia coli
Theoretical MW (kDa)	17
Form	Liquid
Preparation Method	Escherichia coli 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)

😭 Abnova	Product Information
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 GenelD	<u>25824</u>
Protein Accession#	<u>NP_036226</u>
Gene Name	PRDX5
Gene Alias	ACR1, AOEB166, B166, MGC117264, MGC142283, MGC142285, PLP, PMP20, PRDX6, PRX V, SBBI10
Gene Description	peroxiredoxin 5
Omim ID	<u>606583</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hy drogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protectiv e role in different tissues under normal conditions and during inflammatory processes. This protein n 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 s ites 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 peroxiso mal antioxidant enzyme thioredoxin peroxidase PMP20



Disease

- <u>Alopecia Areata</u>
- <u>Alzheimer disease</u>
- <u>Autoimmune Diseases</u>
- <u>Cognition</u>
- <u>Coronary Disease</u>
- Genetic Predisposition to Disease