

Datasheet for ABIN7281359

Peroxiredoxin 5 Protein (PRDX5) (AA 53-214)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Peroxiredoxin 5 (PRDX5)
Protein Characteristics:	AA 53-214
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	MAPIKVGDAI PAVEVFEGEP GNKVNLAELF KGKKGVLFGV PGAFTPGCSK THLPGFVEQA EALKAKGVQV VACLSVND AF VTGEWGRAHK AEGKVRLLAD PTGAFGKETD LLLDDSLVSI FGNRRLKRFS MVVQDGIVKA LNVEPDGTGL TCSLAPNIIS QL
Purity:	> 95 % by SDS-PAGE
Endotoxin Level:	< 1.0 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is >9,000 pmol/min/ug. Enzymatic activity is defined as the amount of hydroperoxide that 1ug of enzyme can reduce at 25C for 1 minute.

Target Details

Target:	Peroxiredoxin 5 (PRDX5)
Alternative Name:	PRDX5 (PRDX5 Products)

Target Details

Background:	Peroxiredoxin 5, also known as PRDX5, is a member of the peroxiredoxin family of antioxidant enzymes, which reduces hydrogen peroxide and alkyl hydroperoxides with reducing equivalents provided through the thioredoxin system. This protein may play an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. It has been reported that PRDX5 is involved in intracellular redox signaling. Recombinant human PRDX5, was expressed in E.coli and purified by using conventional chromatography techniques.
Molecular Weight:	17kDa (162aa) confirmed by MALDI-TOF
NCBI Accession:	NP_036226
UniProt:	P30044
Pathways:	Cell RedoxHomeostasis

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Bioactivity Validated
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Liquid. In 20 mM HEPES (pH 7.4)
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.