

# Product Datasheet

## Recombinant Human Peroxiredoxin 1 His Protein NBC1-18543

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 1

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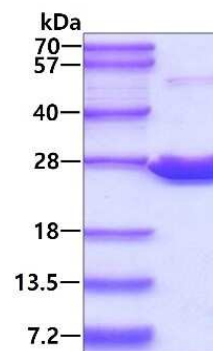
**NBC1-18543**

## Recombinant Human Peroxiredoxin 1 His Protein

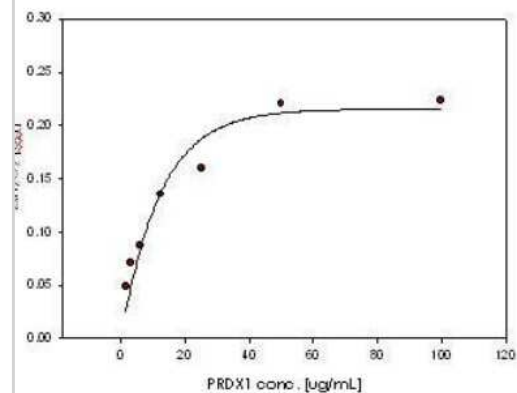
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Preservative	No Preservative
Purity	>90%, by SDS-PAGE
Buffer	20 mM Tris-HCl buffer (pH 7.5), 20% Glycerol
Target Molecular Weight	24 kDa
Product Description	
Description	<p>A bioactive recombinant protein with a N-Terminal His-tag and corresponding to the amino acids 1-199 of Human Peroxiredoxin 1</p> <p><b>Source:</b> <i>E.coli</i></p> <p><b>Amino Acid Sequence:</b> MGSSHHHHHH SGLVPRGSH MSSGNAKIGH PAPNFKATAV MPDGQFKDIS LSDYKGYVV FFFYPLDFTF VCPTEIIAFS DRAEEFKKLN CQVIGASVDS HFCHLAWVNT PPKQGGLGPM NIPLVSDPKR TIAQDYGVK ADEGISFRGL FIIDDKGILR QITVNDLPVG RSVDETLRLV QAFQFTDKHG EVCPAGWKPG SDTIKPDVQK SKEYFSKQK</p>
Gene ID	5052
Gene Symbol	PRDX1
Species	Human
Details of Functionality	Specific activity is >2,000 pmol/min/ug. Enzymatic activity is defined as the amount of hydroperoxide that 1ug of enzyme can reduce at 25C for minute.
Product Application Details	
Applications	SDS-Page, Enzyme Activity
Recommended Dilutions	SDS-Page, Enzyme Activity

## Images

SDS-Page: Recombinant Human Peroxiredoxin 1 His Protein [NBC1-18543] - 3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.



Functional: Recombinant Human Peroxiredoxin 1 His Protein [NBC1-18543] - The remaining peroxide content was determined by measuring the red-colored ferrithiocyanate complex formed as result of reaction at 475nm. delta H2O2 means the discrepancy of peroxide amount before and after reaction. This test was performed triplicate.



## Publications

N Maehara, K Taniguchi, A Okuno, H Ando, A Hirota, Z Li, CT Wang, S Arai, T Miyazaki AIM/CD5L attenuates DAMPs in the injured brain and thereby ameliorates ischemic stroke Cell Reports, 2021-09-14;36(11):109693. 2021-09-14 [PMID: 34525359]



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### **Products Related to NBC1-18543**

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NBP2-52340-10ug	Recombinant Mouse Peroxiredoxin 1 His Protein
NBP1-32822	Nrf2 Antibody
NBP1-82558	Peroxiredoxin 1 Antibody
NBP2-50037	c-Fos Antibody (2H2)

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This product is for research use only and is not approved for use in humans or in clinical diagnosis. Peptides and proteins are guaranteed for 3 months from date of receipt.

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