

Datasheet for ABIN7562834

## Glutathione Peroxidase 1 Protein (GPX1) (AA 1-201) (His tag)



[Go to Product page](#)

### Overview

Quantity:	1 mg
Target:	Glutathione Peroxidase 1 (GPX1)
Protein Characteristics:	AA 1-201
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Glutathione Peroxidase 1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat Gpx1 Protein expressed in mammalien cells.
Sequence:	<p>MCAARLSAAA QSTVYAFSAR PLTGGEPSVL GSLRGKLLI ENVASLUGTT IRDYTEMNDL</p> <p>QKRLGPRGLV VLGFPNCQFG HQENGKNEEI LNSLKYVRPG GGFEPNFTLF EKCEVNGEKA</p> <p>HPLFTFLRNA LPTPSDDPTA LMTDPKYIHW SPVCRNDIAW NFEKFLVGPD GVPVRRYSRR</p> <p>FRTIDIEPDI ETLLSQQSGN S <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> <li>• Made to order protein - from design to production - by highly experienced protein experts.</li> <li>• Protein expressed in mammalien cells and purified in one-step affinity chromatography</li> <li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li> </ul>

## Product Details

- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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## Target Details

Target:	Glutathione Peroxidase 1 (GPX1)
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Alternative Name:	Gpx1 ( <a href="#">GPX1 Products</a> )
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Background:	Glutathione peroxidase 1 (GPx-1) (GSHPx-1) (EC 1.11.1.9) (Cellular glutathione peroxidase) (Phospholipid-hydroperoxide glutathione peroxidase GPX1) (EC 1.11.1.12) (Selenium-dependent glutathione peroxidase 1),FUNCTION: Catalyzes the reduction of hydroperoxides in a glutathione-dependent manner thus regulating cellular redox homeostasis (PubMed:9126277, PubMed:9195979, PubMed:9712879, PubMed:10754271, PubMed:21420488, PubMed:36608588). Can reduce small soluble hydroperoxides such as H2O2, cumene hydroperoxide and tert-butyl hydroperoxide, as well as several fatty acid-derived hydroperoxides (PubMed:9126277, PubMed:9195979, PubMed:9712879, PubMed:10754271, PubMed:21420488, PubMed:36608588). In platelets catalyzes the reduction of 12-hydroperoxyeicosatetraenoic acid, the primary product of the arachidonate 12-lipoxygenase pathway (PubMed:9195979). {ECO:0000269 PubMed:10754271, ECO:0000269 PubMed:21420488, ECO:0000269 PubMed:36608588, ECO:0000269 PubMed:9126277, ECO:0000269 PubMed:9195979, ECO:0000269 PubMed:9712879}.
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Molecular Weight:	22.3 kDa
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UniProt:	<a href="#">P11352</a>
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## Target Details

Pathways:	<a href="#">Thyroid Hormone Synthesis</a> , <a href="#">Sensory Perception of Sound</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">Cell RedoxHomeostasis</a> , <a href="#">Negative Regulation of intrinsic apoptotic Signaling</a> , <a href="#">SARS-CoV-2 Protein Interactome</a>
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## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months