

Selenozyme AB

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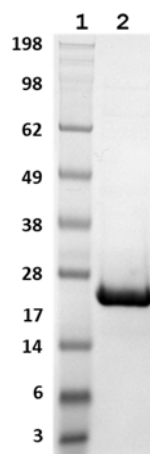
Nanna Svartz väg 2

A Working Lab - Campus Solna

[www.selenozyme.com](http://www.selenozyme.com)

## Product Specification

<b>Product No.</b>	HGPX1-50 (-100, -200, -500)
<b>Lot No.</b>	HGPX1200701
<b>Product Description:</b>	Recombinant Human Glutathione Peroxidase 1 (Non-tagged; 203 residues) 1 mg/mL, 50 (100, 200, 500) $\mu$ L, 10 U per mg enzyme, in 25 mM Tris-HCl (pH 8.0) with 250 mM KCl, 2 mM 2-Mercaptoethanol and 10% glycerol
<b>Specifications:</b>	1 U of enzyme consumes 1 $\mu$ mol GSH per min in a Glutathione Reductase-coupled GPx assay containing 1 mM GSH, 0.5 mM Cumene Hydroperoxide, 15 nM Human Glutathione Reductase and 0.3 mM NADPH in TE buffer (50 mM Tris-HCl, 2 mM EDTA, pH 7.5)
<b>References:</b>	Cheng Q, Arnér ES. (2017) Selenocysteine Insertion at a Predefined UAG Codon in a Release Factor 1 (RF1)-depleted Escherichia coli Host Strain Bypasses Species Barriers in Recombinant Selenoprotein Translation. J Biol Chem. 292:5476-5487.
<b>Storage:</b>	Shipped in cold pack by courier service. Store at -20° C upon delivery.
<b>Examples of Use:</b>	Glutathione Reductase-coupled GPx assay; Inhibitor screening; etc.
<b>NOTE!</b>	Centrifuge the tube briefly before opening the lid
<b>Purity and Gel Analysis:</b>	Purity is $\geq$ 95% as judged by gel analysis



*Coomassie stained SDS PAGE analysis of 10  $\mu$ g HGPX1-50 product*

*Lane 1: Molecular weight marker (SeeBlue™ Plus2)*

*Lane 2: HGPX1-50*