

Selenozyme AB

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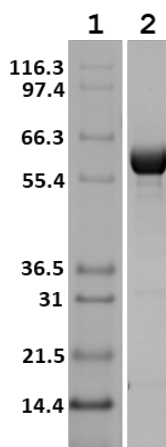
Nanna Svartz väg 2

A Working Lab - Campus Solna

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

## Product Specification

<b>Product No.</b>	SMTGR-5 (-10, -20, -50)
<b>Lot No.</b>	SMTGR200701
<b>Product Description:</b>	Recombinant <i>Shistosoma Mansoni</i> Thioredoxin Glutathione Reductase (Non-tagged, 598 residues)  5 (10, 20, 50) Units, ca 0.25 (0.5, 1, 2.5) mg protein stored in TE buffer with 50% glycerol. Concentration 1 mg/mL.
<b>Specifications:</b>	1 U of enzyme reduces 1 $\mu$ mol DTNB per min in 0.5 mL standard DTNB assay containing 2.5 mM DTNB 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 <i>Escherichia coli</i> Host Strain Bypasses Species Barriers in Recombinant Selenoprotein Translation. <i>J Biol Chem.</i> 292:5476-5487.  Arnér ES, Holmgren A. (2001) Measurement of thioredoxin and thioredoxin reductase. <i>Curr Protoc Toxicol.</i> Chapter 7:Unit 7.4.
<b>Storage:</b>	Shipped in cold pack by courier service. Store at -20° C upon delivery.
<b>Examples of Use:</b>	DTNB assay; Insulin-coupled Thioredoxin 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 SMTGR product*

*Lane 1: Molecular weight marker (Mark12™ Unstained Standard)*

*Lane 2: SMTGR*