

Selenozyme AB

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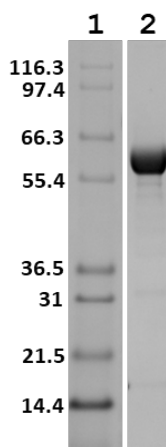
Nanna Svartz väg 2

A Working Lab - Campus Solna

www.selenozyme.com

Product Specification

Product No.	SMTGR-5 (-10, -20, -50)
Lot No.	SMTGR200701
Product Description:	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.
Specifications:	1 U of enzyme reduces 1 μ 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)
References:	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.
Storage:	Shipped in cold pack by courier service. Store at -20° C upon delivery.
Examples of Use:	DTNB assay; Insulin-coupled Thioredoxin assay; Inhibitor screening; etc.
NOTE!	Centrifuge the tube briefly before opening the lid
Purity and Gel Analysis:	Purity is \geq 95% as judged by gel analysis



Coomassie stained SDS PAGE analysis of 10 μ g SMTGR product

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

Lane 2: SMTGR