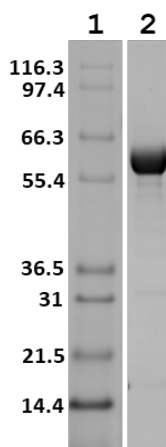


Product Specification

| | |
|---------------------------------|--|
| Product No. | SMTGR-100 (-200, -500, -1000) |
| Lot No. | SMTGR200701 |
| Product Description: | Recombinant <i>Shistosoma Mansoni</i> Thioredoxin Glutathione Reductase (Non-tagged, 598 residues) 1 mg/mL, 100 (200, 500, 1000) μ L, 15 U per mg enzyme, in TE buffer with 50% glycerol |
| 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-100 product

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

Lane 2: SMTGR-100