## Selenozyme

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## **Product Specification**

**Product No.** RTRXR1-5 (-10, -20, -50)

Lot No. RTRXR1200701

**Product Description:** Recombinant Rat Thioredoxin Reductase 1 (Non-tagged, 499 residues)

5 (10, 20, 50) Units, ca 0.2 (0.4, 0.8, 2) mg protein stored in TE buffer with

50% glycerol. Concentration 1 mg/mL.

**Specifications:** 1 U of enzyme reduces 1 μmol 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 Escherichia coli Host Strain Bypasses Species Barriers in Recombinant Selenoprotein Translation. J

Biol Chem. 292:5476-5487.

Arnér ES, Holmgren A. (2001) Measurement of thioredoxin and thioredoxin

reductase. Curr Protoc Toxicol. 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

