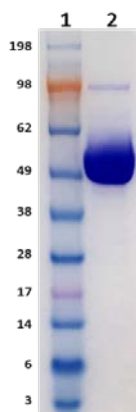


## Product Specification

|                                 |                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product No.</b>              | HTRXR2-5 (-10, -20, -50)                                                                                                                                                                                                                                                                                                                                                          |
| <b>Lot No.</b>                  | HTRXR2200701                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Product Description:</b>     | Recombinant Human Thioredoxin Reductase 2 (Non-tagged; No signal peptide; 488 residues)<br><br>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 Escherichia coli Host Strain Bypasses Species Barriers in Recombinant Selenoprotein Translation. J Biol Chem. 292:5476-5487.<br><br>Arnér ES, Holmgren A. (2001) Measurement of thioredoxin and thioredoxin reductase. Curr Protoc Toxicol. 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 HTRXR2 product*

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

*Lane 2: HTRXR2*