Selenozyme

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Product Specification

Product No. HGPX1-05 (-1, -2.5, -5)

Lot No. HGPX1200701

Product Description: Recombinant Human Glutathione Peroxidase 1 (Non-tagged; 203

residues)

0.5 (1, 2.5, 5) Units, ca 50 (100, 250, 500) μg protein stored in 25 mM Tris-HCl (pH 8.0) with 250 mM KCl, 2 mM 2-Mercaptoethanol

and 10% glycerol. Concentration 1 mg/mL.

Specifications: 1 U of enzyme consumes 1 µmol GSH per min in a Glutathione

Reductase-coupled GPx assay containing 1 mM GSH, 0.5 mM Cumene Hydroperoxide, 15 nM Human Glutathione Reductase 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.

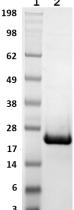
Storage: Shipped in cold pack by courier service. Store at -20° C upon

delivery.

Examples of Use: Glutathione Reductase-coupled GPx assay; Inhibitor screening; etc.

NOTE! Centrifuge the tube briefly before opening the lid

Purity and Gel Analysis: Purity is ≥ 95% as judged by gel analysis



Coomassie stained SDS PAGE analysis of 10 µg HGPX1 product

Lane 1: Molecular weight marker (SeeBlue $^{\text{TM}}$ Plus 2)

Lane 2: HGPX1