

## GLRX5 Human

**Description:** GLRX5 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 177 amino acids (1-157 a.a.) and having a molecular mass of 18.8 kDa. GRX5 is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #: ENPS-487

For research use only.

**Synonyms:** Glutaredoxin-related protein 5 mitochondrial, Monothiol glutaredoxin-5, GLRX5, C14orf87, glutaredoxin 5, GRX5, FLB4739, PR01238, PRO1238, MGC14129.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MSGSLGRAAA ALLRWGRGAG  
GGGLWGPGVR AAGSGAGGGG SAEQLDALVK KDKVVVFLKG TPEQPQCGFS NAVVQILRLH  
GVRDYAAYNV LDDPELRQGI KDYSNWPTIP QVYLNGEFVG GCDILLQMHQ NGDLVEELKK  
LGIHSALLDE KKDQDSK.

**Purity:** Greater than 85% as determined by SDS-PAGE.

**Formulation:**

GLRX5 solution containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 0.1M NaCl.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

GLRX5 is small redox enzyme of approximately 100 amino acids which uses glutathione as a cofactor. GLRX5 is a mitochondrial protein, which is evolutionarily conserved. GLRX5 is oxidized by substrates, and reduced non-enzymatically by glutathione. GLRX5 is involved in the biogenesis of iron-sulfur clusters that are required for normal iron homeostasis. GLRX5 is necessary for normal regulation of hemoglobin synthesis by the iron-sulfur protein ACO1. Defects in the GLRX5 gene are a cause of anemia sideroblastic pyridoxine-refractory autosomal recessive (PRARSA).

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