
Product Data Sheet

Product Name: GLRX5 Human
 Cat. No.: GP21689
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutaredoxin-related protein 5 mitochondrial; Monothiol glutaredoxin-5; GLRX5; C14orf87; glutaredoxin 5; GRX5; FLB4739; PR01238; PRO1238; MGC14129.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSGSLGRAAA ALLRWGRGAG GGGLWGPGVR AAGSGAGGGG SAEQLDALVK KDKVVVFLKG TPEQPQCGFS NAVVQILRLH GVRDYAAYNV LDDPELRQGI KDYSNWPTIP QVYLNGEFVG GCDILLQMHQ NGDLVEELKK LGIHSALLDE KKDQDSK.		
Formulation	GLRX5 solution containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 0.1M NaCl.		

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).

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.

Background

GLRX5 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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