GLRX5 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	GLRX5, Blocking Peptide
Full Product Name	GLRX5 Peptide - middle region
Product Gene Name	GLRX5 blocking peptide
Product Synonym Gene Name	C14orf87; FLB4739; GRX5; MGC14129; PR01238; PRO1238
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	GLRX5 peptide (MBS3238016) is used for blocking the activity of GLRX5 antibody (MBS3213071)
Molecular Weight	16kDa
OMIM	205950
Product Categories/Family for GLRX5 blocking peptide	Peptide
Applications Tested/Suitable for GLRX5 blocking peptide	Western Blot (WB)
Related Product Information for GLRX5 blocking peptide	This is a synthetic peptide designed for use in combination with anti-GLRX5 antibody made Target Description: Defects in GLRX5 are the cause of anemia sideroblastic pyridoxine-refractory autosomal recessive (PRARSA). The specific function of GLRX5 is not yet known.
Other Notes	Small volumes of GLRX5 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GLRX5 purchase	MBS3238016 is a blocking peptide targeting GLRX5. Also known as GLRX5 Peptide - middle region.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLRX5. It may not necessarily be applicable to this product.

NCBI GI #	42516576
NCBI GeneID	51218
NCBI Accession #	NP_057501
UniProt Primary Accession #	Q86SX6
UniProt Related Accession #	Q86SX6
GenBank Nucleotide #	NM_016417
NCBI Official Full Name	glutaredoxin-related protein 5, mitochondrial
NCBI Official Synonym Full Names	glutaredoxin 5
NCBI Official Symbol	GLRX5
NCBI Official Synonym Symbols	GRX5; PRSA; SIDBA3; SPAHGC; FLB4739; PR01238; PRO1238; C14orf87

UniProt Protein Name	Glutaredoxin-related protein 5, mitochondrial
UniProt Synonym Protein Names	Monothiol glutaredoxin-5
Protein Family	Glutaredoxin-related protein
UniProt Gene Name	GLRX5
UniProt Synonym Gene Names	C14orf87
UniProt Entry Name	GLRX5_HUMAN
NCBI Protein Information	glutaredoxin-related protein 5, mitochondrial
NCBI Summary for GLRX5	This gene encodes a mitochondrial protein, which is evolutionarily conserved. It is involved in the biogenesis of iron-sulfur clusters, which are required for normal iron homeostasis. Mutations in this gene are associated with autosomal recessive pyridoxine-refractory sideroblastic anemia. [provided by RefSeq, May 2010]
UniProt Comments for GLRX5	GLRX5: Monothiol glutaredoxin involved in the biogenesis of iron-sulfur clusters. Required for normal iron homeostasis. Required for normal regulation of hemoglobin synthesis by the iron-sulfur protein ACO1. Defects in GLRX5 are a cause of anemia sideroblastic pyridoxine-refractory autosomal recessive (PRARSA). A form of sideroblastic anemia not responsive to pyridoxine. Sideroblastic anemia is characterized by anemia of varying severity, hypochromic peripheral erythrocytes, systemic iron overload secondary to chronic ineffective erythropoiesis, and the presence of bone marrow ringed sideroblasts. Sideroblasts are characterized by iron-loaded mitochondria clustered around the nucleus. Belongs to the glutaredoxin family. Monothiol subfamily. Protein type: Oxidoreductase Chromosomal Location of Human Ortholog: 14q32.13 Cellular Component: mitochondrion; nucleus Molecular Function: 2 iron, 2 sulfur cluster binding; electron carrier activity; metal ion binding; protein disulfide oxidoreductase activity Biological Process: cell redox homeostasis; hemopoiesis Disease: Anemia, Sideroblastic, Pyridoxine-refractory, Autosomal Recessive
Research Articles on GLRX5	**1.** GLRX5 rs1007814 showed a statistically marginally significant difference between cases and controls in genotype frequency (case/control: CC 1:6; CT 112:78; TT 752:505, P=0.049361), but no significant differences in allele distribution [odds ratio (OR)=0.852805]In men, we found a minor difference in the genotype frequency (case/control: CC 0:3; CT 72:36; TT 411:280, P=0.037370) and not in allele distribution (OR=1.142857)
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