GRHPR Blocking Peptide (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	GRHPR, Blocking Peptide
Full Product Name	GRHPR Blocking Peptide (N-term)
Product Gene Name	GRHPR blocking peptide
Product Synonym Gene Name	GLXR
Product Synonym Names	Glyoxylate reductase/hydroxypyruvate reductase; GRHPR; GLXR
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence is selected from aa 41-54 of HUMAN GRHPR
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	GRHPR peptide (MBS9230285) is used for blocking the activity of GRHPR antibody (MBS9215666)
Molecular Weight	27,843 Da
OMIM	260000
Tissue Location	Ubiquitous. Most abundantly expressed in the liver.
Related Product Information for GRHPR blocking peptide	Enzyme with hydroxy-pyruvate reductase, glyoxylate reductase and D-glycerate dehydrogenase enzymatic activities. Reduces hydroxypyruvate to D-glycerate, glyoxylate to glycolate oxidizes D-glycerate to hydroxypyruvate.
Other Notes	Small volumes of GRHPR 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 GRHPR purchase	MBS9230285 is a blocking peptide targeting GRHPR. Also known as GRHPR Blocking Peptide (N-term).

ADDITIONAL DETAILS

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

NCBI GI #	47116943
NCBI GeneID	9380
NCBI Accession #	Q9UBQ7.1
UniProt Primary Accession #	Q9UBQ7
UniProt Secondary Accession #	Q5T945; Q9H3E9; Q9H636; Q9UKX1
UniProt Related Accession #	Q9UBQ7
NCBI Official Full Name	Glyoxylate reductase/hydroxypyruvate reductase
NCBI Official Synonym Full Names	glyoxylate reductase/hydroxypyruvate reductase
NCBI Official Symbol	GRHPR
NCBI Official Synonym Symbols	PH2; GLXR; GLYD
UniProt Protein Name	Glyoxylate reductase/hydroxypyruvate reductase
Protein Family	Glyoxylate reductase/hydroxypyruvate reductase

UniProt Gene Name	GRHPR
UniProt Synonym Gene Names	GLXR
UniProt Entry Name	GRHPR_HUMAN
NCBI Protein Information	glyoxylate reductase/hydroxypyruvate reductase
NCBI Summary for GRHPR	This gene encodes an enzyme with hydroxypyruvate reductase, glyoxylate reductase, and D-glycerate dehydrogenase enzymatic activities. The enzyme has widespread tissue expression and has a role in metabolism. Type II hyperoxaluria is caused by mutations in this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for GRHPR	GRHPR: Enzyme with hydroxy-pyruvate reductase, glyoxylate reductase and D-glycerate dehydrogenase enzymatic activities. Reduces hydroxypyruvate to D-glycerate, glyoxylate to glycolate oxidizes D-glycerate to hydroxypyruvate. Defects in GRHPR are the cause of hyperoxaluria primary type 2 (HP2); also known as primary hyperoxaluria type II (PH2). HP2 is a disorder where the main clinical manifestation is calcium oxalate nephrolithiasis though chronic as well as terminal renal insufficiency has been described. It is characterized by an elevated urinary excretion of oxalate and L- glycerate. Belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family. Protein type: Oxidoreductase; EC 1.1.1.81; Carbohydrate Metabolism - glyoxylate and dicarboxylate; EC 1.1.1.79; Carbohydrate Metabolism - pyruvate Chromosomal Location of Human Ortholog: 9q12 Cellular Component: cytoplasm; cytosol; peroxisomal matrix Molecular Function: glycerate dehydrogenase activity; glyoxylate reductase (NADP) activity; hydroxypyruvate reductase activity; NAD binding; protein homodimerization activity Biological Process: excretion; glyoxylate metabolic process; protein oligomerization Disease: Hyperoxaluria, Primary, Type Ii
Research Articles on GRHPR	**1.** GRHPR was genotyped in Japanese patients with PH2 and all GRHPR mutations described to date were reviewed in terms of geographic and ethnic association
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