Recombinant Human GRHPR, His-tagged

Cat. No. GRHPR-28536TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length, Human GRHPR with N terminal His tag, 348 amino acids with a predicted MWt 37.8 kDa including tag.
Species	Human
ProteinLength	328 amino acids
Description	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.
Conjugation	HIS
Molecular Weight	37.800kDa inclusive of tags
Tissue specificity	Ubiquitous. Most abundantly expressed in the liver.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 1.17% Sodium chloride, 0.08% DTT, 20% Glycerol

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Storage	Store at -20°C (dessicate conditions).
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MRPVRLMKVF VTRRIPAEGR VALARAADCE VEQWDSDEPI PAKELERGVA GAHGLLCLLS DHVDKRILDA AGANLKVIST MSVGIDHLAL DEIKKRGIRV GYTPDVLTDT TAELAVSLLL TTCRRLPEAI EEVKNGGWTS WKPLWLCGYG LTQSTVGIIG LGRIGQAIAR RLKPFGVQRF LYTGRQPRPE EAAEFQAEFV STPELAAQSD FIVVACSLTP ATEGLCNKDF FQKMKETAVF INISRGDVVN QDDLYQALAS GKIAAAGLDV TSPEPLPTNH PLLTLKNCVI LPHIGSATHR TRNTMSLLAA NNLLAGLRGE PMPSELKL
Sequence Similarities	Belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family.

GENE INFORMATION

Gene Name	GRHPR glyoxylate reductase/hydroxypyruvate reductase [Homo sapiens]
Official Symbol	GRHPR
Synonyms	GRHPR; glyoxylate reductase/hydroxypyruvate reductase; GLXR; PH2; primary hyperoxaluria type 2;
Gene ID	9380
mRNA Refseq	NM_012203
Protein Refseq	NP_036335
MIM	604296
Uniprot ID	Q9UBQ7

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Chromosome Location	9q12
Pathway	Glyoxylate and dicarboxylate metabolism, organism-specific biosystem; Glyoxylate and dicarboxylate metabolism, conserved biosystem; Glyoxylate metabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	NAD binding; cofactor binding; glycerate dehydrogenase activity; glyoxylate reductase (NADP) activity; glyoxylate reductase (NADP) activity;

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