

Recombinant Human GRHPR, His-tagged

Cat. No. GRHPR-2491H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GRHPR protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 37.8 kDa (348aa).
Species	Human
Source	E.coli
Description	GRHPR, also known as GLXR, is a member of the D-isomer specific 2-hydroxyacid dehydrogenase family of proteins. Localizing to the cytosol, GRHPR is ubiquitously expressed with highest expression levels found in liver. The protein has widespread tissue expression and has a role in metabolism. GRHPR is an enzyme with hydroxypyruvate reductase, glyoxylate reductase, and D-glycerate dehydrogenase enzymatic activities.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol.
Purity	> 95% by SDS – PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MRPVRLMKVF VTRRIPAEGR VALARAADCE VEQWDSDEPI PAKELERGVA GAHGLLCLLS DHVDKRILDA AGANLKVIST MSVGIDHLAL DEIKKR GIRV GYTPDVLTDT TAE LAVSLLL TTCRRLPEAI

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EEVKNGGWTS WKPLWLCGYG LTQSTVGIIG LGRIGQAIAR RLKPFGVQRF
 LYTGRRPRPE EAAEFQAEFV STPELAAQSD FIVVACSLTP ATEGLCNKDF
 FQKMKETAVF INISRGDVVN QDDLYQALAS GKIAAAGLDV TSPEPLPTNH
 PLLTLKNCVI LPHIGSATHR TRNTMSLLAA NNLLAGLRGE PMPSELKL.

Storage

can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

GRHPR glyoxylate reductase/hydroxypyruvate reductase [Homo sapiens]

Synonyms

glyoxylate reductase/hydroxypyruvate reductase; PH2; GLXR; GLYD; GRHPR;
 glyoxylate reductase/hydroxypyruvate reductase; glycerate-2-dehydrogenase; EC
 1.1.1.79

Gene ID

9380

mRNA Refseq

NM_012203

Protein Refseq

NP_036335

MIM

604296

UniProt ID

Q9UBQ7

**Chromosome
Location**

9q12

Pathway

Glyoxylate and dicarboxylate metabolism; Metabolic pathways; Pyruvate metabolism

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Function

NAD or NADH binding; cofactor binding; glycerate dehydrogenase activity; glyoxylate reductase (NADP) activity; hydroxypyruvate reductase activity; oxidoreductase activity; protein binding

PDB rendering based on 2gcg.

