

## Recombinant Human GRHPR, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	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).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Form</b>	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol.
<b>Purity</b>	> 95% by SDS – PAGE.
<b>Concentration</b>	0.5 mg/ml (determined by Bradford assay).
<b>Sequences Of Amino Acids</b>	MGSSHHHHHH SSGLVPRGSH MRPVRLMKVF VTRRIPAEGR VALARAADCE VEQWDSDEPI PAKELERGVA GAHGLLCLLS DHVDKRILDA AGANLKVIST MSVGIDLAL DEIKKRGIRV GYTPDVLTDT TAELAVSLLL TTCRRLPEAI

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EEVKNGGWTS WKPLWLCCGYG LTQSTVGIIG LGRIGQAIAR RLKPFQVQRF  
 LYTGRRPRPE EAAEFQAEFV STELAAQSD FIVVACSLTP ATEGLCNKDF  
 FQKMKETAVF INISRGDVVN QDDLYQALAS GKIAAAGLDV TSPEPLPTNH  
 PLLTLKNCVI LPHIGSATHR TRNTMSLLAA NLLAGLRGE 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

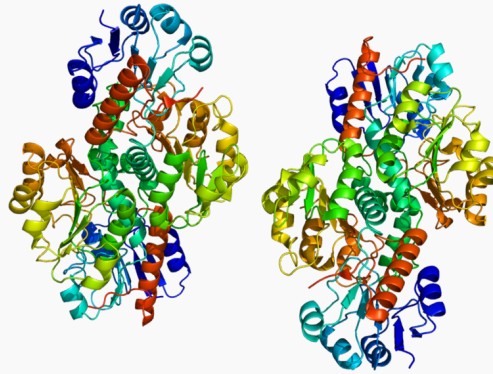
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**Function**

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.**

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