

## Recombinant Human GRHPR, His-tagged

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

### SPECIFICATION

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

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|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Store at -20°C (dessicate conditions).                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Sequences of amino acids</b> | MGSSHHHHHH SSGLVPRGSH MRPVRLMKVF VTRRIPAEGR VALARAADCE<br>VEQWDSDEPI PAKELERGVA GAHGLLCLLS DHVDKRILDA AGANLKVIST<br>MSVGIDHLAL DEIKKRGIRV GYTPDVLTDT TAELAVSLLL TTCRRLPEAI<br>EEVKNGGWTS WKPLWLCCYG LTQSTVGIIG LGRIGQAIAR RLKPFGVQRF<br>LYTGRQPRPE EAAEFQAEFV STPELAAQSD FIVVACSLTP ATEGLCNKDF<br>FQMKKETAVF INISRGDVVN QDDLYQALAS GKIAAAGLDV TSPEPLPTNH<br>PLLTLKNCVI LPHIGSATHR TRNTMSLLAA NNLLAGLRGE PMPSELKL |
| <b>Sequence Similarities</b>    | Belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family.                                                                                                                                                                                                                                                                                                                                             |
| <b>GENE INFORMATION</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Gene Name</b>                | GRHPR glyoxylate reductase/hydroxypyruvate reductase [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                            |
| <b>Official Symbol</b>          | GRHPR                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>                 | GRHPR; glyoxylate reductase/hydroxypyruvate reductase; GLXR; PH2; primary hyperoxaluria type 2;                                                                                                                                                                                                                                                                                                                  |
| <b>Gene ID</b>                  | 9380                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>              | NM_012203                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>           | NP_036335                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>                      | 604296                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Uniprot ID</b>               | Q9UBQ7                                                                                                                                                                                                                                                                                                                                                                                                           |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 9q12                                                                                                                                                                                                                                                                              |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | NAD binding; cofactor binding; glycerate dehydrogenase activity; glyoxylate reductase (NADP) activity; glyoxylate reductase (NADP) activity;                                                                                                                                      |

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