

Recombinant Human GRHPR 293 Cell Lysate

Cat. No. GRHPR-5749HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for glyoxylate reductase/hydroxypyruvate reductase (GRHPR) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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; glycerate-2-dehydrogenase; GLYD;

Gene ID [9380](#)

mRNA Refseq [NM_012203](#)

Protein Refseq [NP_036335](#)

MIM [604296](#)

UniProt ID [Q9UBQ7](#)

Chromosome Location 9q12

Pathway Glycine, serine and threonine metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, conserved biosystem; 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;

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Function

NAD binding; cofactor binding; glycerate dehydrogenase activity; glyoxylate reductase (NADP) activity; glyoxylate reductase (NADP) activity; hydroxypyruvate reductase activity; nucleotide binding; oxidoreductase activity; oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor;

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