

Recombinant Human GPD1 293 Cell Lysate

Cat. No. GPD1-5809HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for glycerol-3-phosphate dehydrogenase 1 (soluble) (GPD1) 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

GPD1 glycerol-3-phosphate dehydrogenase 1 (soluble) [Homo sapiens]

Official Symbol

GPD1

Synonyms

GPD1; glycerol-3-phosphate dehydrogenase 1 (soluble); glycerol-3-phosphate dehydrogenase [NAD(+)], cytoplasmic; glycerophosphate dehydrogenase; glycerol-3-phosphate dehydrogenase [NAD+], cytoplasmic; GPD-C; HTGTI; GPDH-C; FLJ26652;

Gene ID

2819

mRNA Refseq

NM_001257199

Protein Refseq

NP_001244128

MIM

138420

UniProt ID

P21695

Chromosome Location

12q13.12

Pathway

Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolism, organism-specific biosystem;

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Metabolism of lipids and lipoproteins, organism-specific biosystem; Triacylglyceride Synthesis, organism-specific biosystem; Triglyceride Biosynthesis, organism-specific biosystem;

Function

NAD binding; glycerol-3-phosphate dehydrogenase [NAD+] activity; glycerol-3-phosphate dehydrogenase activity; protein homodimerization activity;

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