

Recombinant Human GPD1 protein, His-tagged

Cat. No. GPD1-17H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GPD1(Met1-Met349) fused with His tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-349 a.a.
Description	Glycerol-3-Phosphate Dehydrogenase [NAD(+)], Cytoplasmic (GPDH-C) belongs to the NAD-Dependent Glycerol-3-Phosphate Dehydrogenase family. GPDH-C plays a critical role in carbohydrate and lipid metabolism by catalyzing the reversible conversion of Dihydroxyacetone Phosphate (DHAP) and reducing Nicotine Adenine Dinucleotide (NADH) to Glycerol-3-Phosphate (G3P) and NAD ⁺ . GPDH-C is inhibited by zinc ions and sulfate. Mutations in this gene are a cause of transient infantile hypertriglyceridemia. GPDH-C is unlike Glyceraldehyde 3-Phosphate Dehydrogenase (GAPDH); they have different substrates.
Form	Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 10% Glycerol, pH 8.0.
AA Sequence	MASKKVCIVGSGNWGSAIAKIVGGNAAQLAQFDPRVTMWWFEEDIGGKKLTEIINTQ HENVKYLP GHKLPPNVVAVPDVVQAAEDADILIFVVPHQFIGKICDQLKGHLKANAT GISLIKGVDEGPNGLK LISEVIGERLIGIPMSVLMGANIASEVADEKFCETTIGCKDPAQ GQLLKELMQTPNFRITVVQEVD TVEICGALKNVVAVGAGFCDGLGFGDNTKAAVIRL GLMEMIAFAKLFCSGPVSSATFLESCGVAD LITTCYGGRNRKVAEAFARTGKSIEQL

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EKELLNGQKLQGPETARELYSILQHKGLVDFPLFMAV YKVCYEGQPVGFEIHCLQ
NHPEHMDHDDHHHHH

Endotoxin Less than 0.1 ng/g (1 EU/g) as determined by LAL test.

Purity Greater than 95% as determined by reducing SDS-PAGE.

Storage Store at < -20 centigrade, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

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](#)

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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; 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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