

Recombinant Full Length Human GPD1 Protein, GST-tagged

Cat. No. GPD1-5514HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GPD1 full-length ORF (AAH32234, 1 a.a. - 349 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	349 amino acids
Description	This gene encodes a member of the NAD-dependent glycerol-3-phosphate dehydrogenase family. The encoded protein plays a critical role in carbohydrate and lipid metabolism by catalyzing the reversible conversion of dihydroxyacetone phosphate (DHAP) and reduced nicotinic adenine dinucleotide (NADH) to glycerol-3-phosphate (G3P) and NAD⁺. The encoded cytosolic protein and mitochondrial glycerol-3-phosphate dehydrogenase also form a glycerol phosphate shuttle that facilitates the transfer of reducing equivalents from the cytosol to mitochondria. Mutations in this gene are a cause of transient infantile hypertriglyceridemia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012]
Molecular Mass	64.13 kDa
AA Sequence	MASKKVCIVGSGNWGSAIAKIVGGNAAQLAQFDPRVTMWVFEEDIGGKKLTEIINTQ HENVKYLPGHKLPPNVVAVPDVVQAAEDADILIFVVPHQFIGKICDQLKGHLKANATG ISLIKGVDEGPNGLKLISEVIGERLGIPMSVLMGANIASEVADEKFCETTIGCKDPAQG

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QLLKELMQTPNFRITVVQEVDTEICGTLKNVVAVGAGFCDGLGFGDNTKAAVIRLG
LMEIAFAKLFCSGPVSSATFLESCGVADLITTCYGGNRNRKVAEAFARTGKSIEQLEK
ELLNGQKLQGPETARELYSILQHKGLVDKFPLFMAVYKVCYEGQPVGFEIHCLQNHP
EHM

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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

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Protein Refseq	NP_001244128
MIM	138420
UniProt ID	P21695

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