



GPD1 peptide (DAG-P0576)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description This gene encodes a member of t	the NAD-dependent glycerol-3-phosphate dehydrogenase
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family. The encoded protein plays a critical role in carbohydrate and lipid metabolism by catalyzing the reversible conversion of dihydroxyacetone phosphate (DHAP) and reduced nicotine 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]

Purity 70 - 90% by HPLC.	
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Conjugate Unconjugated

Sequence Similarities Belongs to the NAD-dependent glycerol-3-phosphate dehydrogenase family.

Format Liquid

Preservative None

Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw

cycles. Information available upon request.

GENE INFORMATION

Gene Name	GPD1 alycerol-3-phosphate dehi	vdrogenase 1 (soluble) [Homo saniens (human)]

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

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3-phosphate dehydrogenase [NAD+], cytoplasmic;

Function	NAD binding; glycerol-3-phosphate dehydrogenase [NAD+] activity; glycerol-3-phosphate dehydrogenase activity; protein homodimerization activity;
	organism-specific biosystem; Phospholipid metabolism, organism-specific biosystem; Synthesis of PA, organism-specific biosystem; Triacylglyceride Synthesis,
	metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins,
Pathway	Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glycerophospholipid biosynthesis, organism-specific biosystem; Glycerophospholipid
Chromosome Location	12q13.12
UniProt ID	P21695
Protein Refseq	NP 001244128.1
mRNA Refseq	NM 001257199.1
Entrez Gene ID	<u>2819</u>