

Recombinant Human GPD2, His-tagged

Cat. No. GPD2-13420H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GPD2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	5-378a.a.
Description	Heterotrimeric guanine nucleotide-binding proteins (G proteins), which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit. These subunits are encoded by families of related genes. This gene encodes a beta subunit. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. This gene uses alternative polyadenylation signals.
Source	E.coli
Species	Human
Tag	His
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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Storage Buffer

1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name [GPD2 glycerol-3-phosphate dehydrogenase 2 \(mitochondrial\) \[Homo sapiens \]](#)

Official Symbol GPD2

Synonyms

GPD2; glycerol-3-phosphate dehydrogenase 2 (mitochondrial); glycerol-3-phosphate dehydrogenase, mitochondrial; GPD-M; mtGPD; GPDH-M; mitochondrial glycerophosphate dehydrogenase; GDH2; GPDM; mGPDH;

Gene ID [2820](#)

mRNA Refseq [NM_000408](#)

Protein Refseq [NP_000399](#)

MIM [138430](#)

UniProt ID [P43304](#)

Chromosome Location 2q24.1

Pathway

Fatty Acid Beta Oxidation, organism-specific biosystem; 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; glycerol-3-phosphate shuttle,

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organism-specific biosystem;

Function

calcium ion binding; glycerol-3-phosphate dehydrogenase [NAD+] activity; glycerol-3-phosphate dehydrogenase activity; oxidoreductase activity; sn-glycerol-3-phosphate:ubiquinone-8 oxidoreductase activity;

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