

Recombinant Full Length Human GPD2 Protein, GST-tagged

Cat. No. GPD2-5516HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GPD2 full-length ORF (AAH19874, 1 a.a. - 378 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	378 amino acids
Description	Mitochondrial glycerophosphate dehydrogenase (EC 1.1.99.5), or GPD2, is located on the outer surface of the inner mitochondrial membrane and catalyzes the unidirectional conversion of glycerol-3-phosphate (G-3-P) to dihydroxyacetone phosphate (DHAP) with concomitant reduction of the enzyme-bound FAD. Together with a cytosolic NAD-linked GPD (GPD1; MIM 138420), GPD2 forms the glycerol phosphate shuttle, which uses the interconversion of G-3-P and DHAP to transfer reducing equivalents into mitochondria, resulting in the reoxidation of NADH formed during glycolysis.[supplied by OMIM
Molecular Mass	67.32 kDa
AA Sequence	MAFQKAVKGTLVGGGALATVLGLSQFAHYRRKQMNLAYVKAADCISEPVNREPPSR EAQLLTLQNTSEFDILVIGGGATGSGCALDAVTRGLKTALVERDDFSSGTSSRSTKLI HGGVRYLQKAIMKLDIEQYRMVKEALHERANLLEIAPHLSAPLPIMLPVYKWWQLPY YWVGIKLYDLVAGSNCLKSSYVLSKSRALHFPMQLQDKLVGAIVYYDGQHNDARM NLAIALTAARYGAATANYMEVVSLLKKTDPQTGKVHVSGARCKDVLGTGQEFDVRAK

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	CVINATGPFTDSVRKMDDKDAAAICQPSAGVHIVMPGYYSPEMGLLPATSDGRVI FFLPWQKMTIAGTTDTPTDVTTHHIPSEEDINFILNEV
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	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

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UniProt ID

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