Recombinant Human GPD2, His-tagged

Cat. No. GPD2-28583TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GPD2 comprises a 558 amino acid fragment (43-600) corresponding to the GlpA domain fragment of the mature GPD2 protein, with an amino-terminal hexahistidine tag.
Species	Human
Source	E.coli
ProteinLength	43-600 a.a.
Description	The protein encoded by this gene localizes to the inner mitochondrial membrane and catalyzes the conversion of glycerol-3-phosphate to dihydroxyacetone phosphate, using FAD as a cofactor. Along with GDP1, the encoded protein constitutes the glycerol phosphate shuttle, which reoxidizes NADH formed during glycolysis. Two transcript variants encoding the same protein have been found for this gene.
Conjugation	HIS
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 50% Glycerol, PBS
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Sequence Similarities	Belongs to the FAD-dependent glycerol-3-phosphate dehydrogenase family.Contains 2 EF-hand domains.

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;
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 of lipids and lipoproteins, organism-specific biosystem;

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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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