

Recombinant Human GPD2 Protein, GST-tagged

Cat. No. GPD2-5153H **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	Wheat Germ
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 EAQLTLQNTSEFDILVIGGGATGSGCALDAVTRGLKTALVERDDFSSGTSSRSTKLI HGGVRYLQKAIMKLDIEQYRMVKEALHERANLLEIAPHLSAPLPIMLPVYKWWQLPY YWVGIKLYDLVAGSNCLKSSYVLSKSRALHFPMQLQDKLVGAIVYYDGQHNDARM NLAIALTAARYGAATANYMEVVSLLKKTDPQTGKVHVSGARCKDVLGTGQEFDVRAK CVINATGPFTDSVRKMDDKDAAAICQPSAGVHIVMPGYYSPEMGLLDPATSDGRVI

 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

FFLPWQKMTIAGTTDPTDVTTHHPIPSEEDINFILNEV

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

GP2D glycerol-3-phosphate dehydrogenase 2 (mitochondrial) [Homo sapiens]

Official Symbol

GP2D

Synonyms

GP2D; glycerol-3-phosphate dehydrogenase 2 (mitochondrial); glycerol-3-phosphate dehydrogenase, mitochondrial; GP2D-M; mtGP2D; GP2DH-M; mitochondrial glycerophosphate dehydrogenase; GDH2; GP2DM; mGP2DH;

Gene ID

2820

mRNA Refseq

NM_000408

Protein Refseq

NP_000399

MIM

138430

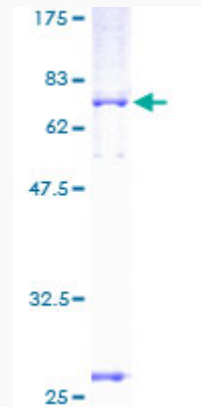
 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID

P43304

**Quality Control
Testing**

12.5% SDS-PAGE Stained with Coomassie Blue.

 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