

Product datasheet for TP306538

OriGene Technologies, Inc.

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Glycerol 3 Phosphate Dehydrogenase (GPD1) (NM 005276) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human glycerol-3-phosphate dehydrogenase 1 (soluble) (GPD1), 20 μg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC206538 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MASKKVCIVGSGNWGSAIAKIVGGNAAQLAQFDPRVTMWVFEEDIGGKKLTEIINTQHENVKYLPGHKLP PNVVAVPDVVQAAEDADILIFVVPHQFIGKICDQLKGHLKANATGISLIKGVDEGPNGLKLISEVIGERL GIPMSVLMGANIASEVADEKFCETTIGCKDPAQGQLLKELMQTPNFRITVVQEVDTVEICGALKNVVAVG AGFCDGLGFGDNTKAAVIRLGLMEMIAFAKLFCSGPVSSATFLESCGVADLITTCYGGRNRKVAEAFART GKSIEQLEKELLNGQKLQGPETARELYSILQHKGLVDKFPLFMAVYKVCYEGQPVGEFIHCLQNHPEHM

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Tag: C-Myc/DDK

Predicted MW: 37.4 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 005267

Locus ID: 2819





Glycerol 3 Phosphate Dehydrogenase (GPD1) (NM_005276) Human Recombinant Protein – TP306538

UniProt ID: <u>P21695</u>, <u>A0A024R138</u>

RefSeq Size: 3083

Cytogenetics: 12q13.12

RefSeq ORF: 1047

Synonyms: GPD-C; GPDH-C; HTGTI

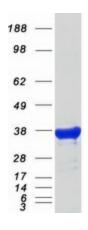
Summary: This gene encodes a member of the NAD-dependent glycerol-3-phosphate dehydrogenase

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]

Protein Pathways: Glycerophospholipid metabolism

Product images:



Coomassie blue staining of purified GPD1 protein (Cat# TP306538). The protein was produced from HEK293T cells transfected with GPD1 cDNA clone (Cat# [RC206538]) using MegaTran 2.0 (Cat# [TT210002]).