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Product datasheet for TP720715XL

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

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human glycerol-3-phosphate dehydrogenase 1 (soluble) (GPD1)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	Met1-Met349
Tag:	C-His
Predicted MW:	38.6 kDa
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Endotoxin:	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
Storage:	Store at -80°C.
Stability:	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_005267
Locus ID:	2819
UniProt ID:	P21695, A0A024R138
RefSeq Size:	3083
Cytogenetics:	12q13.12
RefSeq ORF:	1047
Synonyms:	GPD-C; GPDH-C; HTGTI

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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