

# Recombinant Human Glycerol-3-Phosphate Dehydrogenase 1-Like, His-tagged

**Cat. No.** GPD1L-6866H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Recombinant human GPD1L protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography. MW: 40.6 kDa.                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 1-351aa                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | GPD1L converts sn-glycerol 3-phosphate to glycerone phosphate. This protein is found in the cytoplasm, associated with the plasma membrane, where it binds the sodium channel, voltage-gated, type V, alpha subunit (SCN5A). Mutations in GPD1L are the cause of sudden infant death syndrome (SIDS) and Brugada syndrome type 2, an autosomal dominant tachyarrhythmia. |
| <b>Form</b>             | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT.                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 40.6 kDa (371aa), confirmed by MALDI-TOF.                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MAAAPLKVCI VGSGNWGSAV AKIIGNNVKK<br>LQKFASTVKM WVFEETVNGR KLTDIINNDH ENVKYLPGHK LPENVVAMSN<br>LSEAVQDADL LVFVIPHQFI HRICDEITGR VPKKALGITL IKGIDEGPEG LKLISDIIRE<br>KMGIDISVLM GANIANEVAA EKFCETTIGS KVMENGLLFK ELLQTPNFRI<br>TVVDDADTVE LCGALKNIVA VGAGFCDGLR CGDNTKAAVI RLGLMEMIAF                                                                |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

ARIFCKGQVS TATFLESCGV ADLITTCYGG RNRRVAEFAF RTGKTIEELE  
 KEMLNGQKLQ GPQTSAEVYR ILKQKGLLDK FPLFTAVYQI CYESRPVQEM  
 LSCLQSHPEH T

**Purity** >95% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 1 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [GPD1L glycerol-3-phosphate dehydrogenase 1-like \[ Homo sapiens \]](#)

**Official Symbol** GPD1L

**Synonyms** GPD1L; glycerol-3-phosphate dehydrogenase 1-like; glycerol-3-phosphate dehydrogenase 1-like protein; KIAA0089; GPD1-L;

**Gene ID** [23171](#)

**mRNA Refseq** [NM\\_015141](#)

**Protein Refseq** [NP\\_055956](#)

**MIM** [611778](#)

**UniProt ID** [Q8N335](#)

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 3p22.3                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Pathway</b>             | Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Triglyceride Biosynthesis, organism-specific biosystem; |
| <b>Function</b>            | NAD binding; glycerol-3-phosphate dehydrogenase [NAD+] activity; protein homodimerization activity;                                                                                                                                                                                                                                                                          |

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