

# Recombinant Human GPD1L Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** GPD1L-2662H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | GPD1L MS Standard C13 and N15-labeled recombinant protein (NP_055956) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | The protein encoded by this gene catalyzes the conversion of sn-glycerol 3-phosphate to glycerone phosphate. The encoded protein is found in the cytoplasm, associated with the plasma membrane, where it binds the sodium channel, voltage-gated, type V, alpha subunit (SCN5A). Defects in this gene are a cause of Brugada syndrome type 2 (BRS2) as well as sudden infant death syndrome (SIDS).                       |
| <b>Molecular Mass</b>   | 38.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MAAAPLKVCIVGSGNWGS AVAKIIGNNVKKLQKFASTVKMWWFEETVNGRKLTDIIN<br>NDHENVKYLPGHKLPENVVAMSNLSEAVQDADLLVFVIPHQFIHRICDEITGRVPKKA<br>LGITLIKGIDEGPEGLKLISDIIREKMGIDISVLGMGANIANEVA AEKFCETTIGSKVMENG<br>LLFKELLQTPNFRITVVDDADTVELCGALKNIVAVGAGFCDGLRCGDNTKAAVIRLGL<br>MEMIAFARIFCKGQVSTATFLESCGVADLITTCYGGRRNRVAAEFARTGKTIEELEKE<br>MLNGQKLQGPQTS AEVYRILKQKGLLDKFPLFTAVYQICYESRPVQEMLSCLQSHPE<br>HTTRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                |

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|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

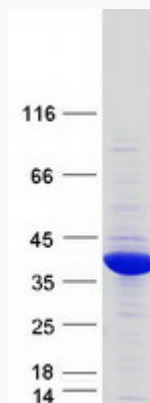
## GENE INFORMATION

|                        |                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | GPD1L glycerol-3-phosphate dehydrogenase 1-like [ Homo sapiens (human) ]                                               |
| <b>Official Symbol</b> | GPD1L                                                                                                                  |
| <b>Synonyms</b>        | GPD1L; glycerol-3-phosphate dehydrogenase 1-like; glycerol-3-phosphate dehydrogenase 1-like protein; KIAA0089; GPD1-L; |
| <b>Gene ID</b>         | 23171                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_015141                                                                                                              |
| <b>Protein Refseq</b>  | NP_055956                                                                                                              |
| <b>MIM</b>             | 611778                                                                                                                 |
| <b>UniProt ID</b>      | Q8N335                                                                                                                 |

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**SDS-PAGE**

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