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## Product Data Sheet

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Product Name: GPD1L Human

Cat. No.: GP21715

Batch No.: 1

**Product Data**

|                     |   |                    |                         |
|---------------------|---|--------------------|-------------------------|
| Purity              | >98%  | Source             | Escherichia Coli.       |
| Physical Appearance | solid   | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | Glycerol-3-phosphate dehydrogenase 1-like protein; GPD1-L; GPD1L; KIAA0089.   |                    |                         |
| Amino Acid Sequence | MGSSHHHHHH SSGLVPRGSH MAAAPLKVCI VGSGNWGSAV AKIIGNNVKK<br>LQKFASTVKM WVFEETVNGR KLTDIINNDH ENVKYLPGHK LPENVVAMSN<br>LSEAVQDADL LVFVIPHQFI HRICDEITGR VPKKALGITL IKGIDEGPEG<br>LKLISDIIRE KMGIDISVLM GANIANEVAA EKFCETTIGS KVMENGLLFK<br>ELLQTPNFRI TVVDDADTVE LCGALKNIVA VGAGFCDGLR CGDNTKAAVI<br>RLGLMEMIAF ARIFCKGQVS TATFLESCGV ADLITTCYGG RNRVVAEFA<br>RTGKTIEELE KEMLNGQKLQ GPQTSAEVYR ILKQKGLLDK FPLFTAVYQI<br>CYESRPVQEM LSCLQSHPEH T. |                    |                         |
| Formulation         | GPD1L protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 1mM DTT.  |                    |                         |

**Introduction**

Glycerol-3-phosphate dehydrogenase 1-like protein (GPD1L) converts sn-glycerol 3-phosphate to glycerone phosphate. GPD1L 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 the GPD1L gene are the cause of SIDS (sudden infant death syndrome) and Brugada syndrome type 2 (an autosomal dominant tachyarrhythmia).

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

GPD1L Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 371 amino acids (1-351 a.a.) and having a molecular mass of 40.6kDa. GPD1L is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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