

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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	1-351aa
Description	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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT.
Molecular Mass	40.6 kDa (371aa), confirmed by MALDI-TOF.
AA Sequence	MGSSHHHHHH SSGLVPRGSH MAAAPLKVCI VGSGNWGSAV AKIIGNNVKK LQKFASTVKM WVFEETVNGR KLTDIINNDH ENVKYLPGHK LPENVVAMSN LSEAVQDADL LVFVIPHQFI HRICDEITGR VPKKALGITL IKGIDEGPEG LKLISDIIRE KMGIDISVLM GANIANEVAA EKFCETTIGS KVMENGLLFK ELLQTPNFRI TVVDDADTVE LCGALKNIVA VGAGFCDGLR CGDNTKAAVI RLGLMEMIAF

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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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Chromosome Location	3p22.3
Pathway	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;
Function	NAD binding; glycerol-3-phosphate dehydrogenase [NAD+] activity; protein homodimerization activity;

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