

Recombinant Human GPD1L, His-tagged

Cat. No. GPD1L-28584TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length Human GPD1L with a N terminal His tag. 371 amino acids with a predicted MWt 40.6 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	351 amino acids
Description	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).
Conjugation	HIS
Molecular Weight	40.600kDa inclusive of tags
Tissue specificity	Most highly expressed in heart tissue, with lower levels in the skeletal muscle, kidney, lung and other organs.
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 20% Glycerol, 0.02% DTT
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMAAAPLKVCIVGSGNWGSAVAKIIGNNVKKLQKFAS TVKMWVFEETVNGRKLTDIINNDHENVKYLPGHKL PENVVAMSNLSEAVQDADLLVF VIPHQFIHRICDEITGRVPKKALGITLIKIGIDEGPEGLKLISDIIREKMGIDISVLMGANIA NEVAAEKFCETTIGSKVMENGLLFKELLQTPNFRITVVDDADTVELCGALKNIVAVGA GFGDGLRCGDNTKAAVIRLGLMEMIAFARIFCKGQVSTATFLESCGVADLITTCYGG RNRRVAEAFARTGKTIEELEKEMLNGQKLQGPQTS AEVYRILKQKGLLDKFPLFTAV YQICYESRPVQEMLSLQSHPEHT
Sequence Similarities	Belongs to the NAD-dependent glycerol-3-phosphate dehydrogenase family.

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;
Gene ID	23171
mRNA Refseq	NM_015141
Protein Refseq	NP_055956

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MIM	611778
Uniprot ID	Q8N335
Chromosome Location	3p22.3
Pathway	Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem;
Function	NAD binding; glycerol-3-phosphate dehydrogenase [NAD+] activity; protein homodimerization activity;

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