GPD1L Protein, Human (GST)

Cat. No.:	HY-P700390
Synonyms:	GPD1L; glycerol-3-phosphate dehydrogenase 1-like; glycerol-3-phosphate dehydrogenase 1-like protein; KIAA0089;
Species:	Human
Source:	E. coli
Accession:	Q8N335 (M1-T351)
Gene ID:	23171
Molecular Weight:	65.4 kDa

PROPERTIES

AA Sequence	MAAAPLKVCI VGSGNWGSAV AKIIGNNVKK LQKFASTVKM WVFEETVNGR KLTDIINNDH ENVKYLPGHK LPENVVAMSN LSEAVQDADL LVFVIPHQFI HRICDEITGR VPKKALGITL IKGIDEGPEG LKLISDIIRE KMGIDISVLM GANIANEVAA EKFCETTIGS KVMENGLLFK ELLQTPNFRI TVVDDADTVE LCGALKNIVA VGAGFCDGLR CGDNTKAAVI RLGLMEMIAF ARIFCKGQVS TATFLESCGV ADLITTCYGG RNRRVAEAFA RTGKTIEELE KEMLNGQKLQ GPQTSAEVYR ILKQKGLLDK FPLFTAVYQI CYESRPVQEM LSCLQSHPEH T
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	GPD1L protein is involved in the regulation of cardiac sodium current. A decrease in its enzymatic activity results in elevated glycerol 3-phosphate levels, activating the DPD1L-dependent SCN5A phosphorylation pathway, potentially leading to a

	reduction in sodium current. Additionally, changes in NAD(H) balance induced by GPD1L may contribute to the decrease in cardiac sodium current.

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