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Datasheet for ABIN1096777

GPD1 Protein (AA 2-349) (His tag)

Overview

Quantity:	50 µg
Target:	GPD1
Protein Characteristics:	AA 2-349
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPD1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human GPD1/GDP-C (C-6His)
Sequence:	<p>MASKKVCIVG SGNWGSAIAK IVGGNAAQLA QFDPRTMWV FEEDIGGKKL TEIINTQHEN</p> <p>VKYLPGHKLP PNVVAVPDVV QAAEDADILI FVVPHQFIGK ICDQLKGHLK ANATGISLIK</p> <p>GVDEGPNGLK LISEVIGERL GIPMSVLMGA NIASEVADEK FCETTIGCKD PAQGQLLKEL</p> <p>MQTPNFRITV VQEVDTVEIC GALKNVVAVG AGFCDGLGFG DNTKAAVIRL GLMEMIAFAK</p> <p>LFCSGPVSSA TFLESCGVAD LITTCYGGRN RKVAEAFART GKSIEQLEKE LLNGQKLQGP</p> <p>ETARELYSIL QHKGLVDKFP LFMAVYKVCY EGQPVGEFIH CLQNHPEHMHV DHHHHHHH</p>
Characteristics:	Recombinant Human Glycerol-3-Phosphate Dehydrogenase [NAD(+)], Cytoplasmic/GPD1 is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Ala2-Met349) of Human GPD1 fused with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	GPD1
Alternative Name:	GPDH-C (GPD1 Products)
Sub Type:	Fusionprotein
Background:	<p>Glycerol-3-Phosphate Dehydrogenase [NAD(+)], Cytoplasmic (GPDH-C) belongs to the NAD-Dependent Glycerol-3-Phosphate Dehydrogenase family. GPDH-C plays a critical role in carbohydrate and lipid metabolism by catalyzing the reversible conversion of Dihydroxyacetone Phosphate (DHAP) and reducing Nicotine Adenine Dinucleotide (NADH) to Glycerol-3-Phosphate (G3P) and NAD⁺. GPDH-C is inhibited by zinc ions and sulfate. Mutations in this gene are a cause of transient infantile hypertriglyceridemia. GPDH-C is unlike Glyceraldehyde 3-Phosphate Dehydrogenase (GAPDH), they have different substrates.</p> <p>Alternative Names: Glycerol-3-Phosphate Dehydrogenase [NAD(+)] Cytoplasmic, GPD-C, GPDH-C, GPD1</p>
Molecular Weight:	38.6 kDa
UniProt:	P21695

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 10 % Glycerol, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt.

Handling

Please minimize freeze-thaw cycles.

Expiry Date: 6 months