

GPD1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70320
Synonyms:	rHuGlycerol-3-phosphate dehydrogenase [NAD(+)] cytoplasmic/GPD1, His; Glycerol-3-Phosphate Dehydrogenase [NAD(+)] Cytoplasmic; GPD-C; GPDH-C; GPD1
Species:	Human
Source:	HEK293
Accession:	P21695 (M1-M349)
Gene ID:	2819
Molecular Weight:	35-48 kDa

PROPERTIES

AA Sequence	<pre> M A S K K V C I V G S G N W G S A I A K I V G G N A A Q L A Q F D P R V T M W V F E E D I G G K K L T E I I N T Q H E N V K Y L P G H K L P P N V V A V P D V V Q A A E D A D I L I F V V P H Q F I G K I C D Q L K G H L K A N A T G I S L I K G V D E G P N G L K L I S E V I G E R L G I P M S V L M G A N I A S E V A D E K F C E T T I G C K D P A Q G Q L L K E L M Q T P N F R I T V V Q E V D T V E I C G A L K N V V A V G A G F C D G L G F G D N T K A A V I R L G L M E M I A F A K L F C S G P V S S A T F L E S C G V A D L I T T C Y G G R N R K V A E A F A R T G K S I E Q L E K E L L N G Q K L Q G P E T A R E L Y S I L Q H K G L V D K F P L F M A V Y K V C Y E G Q P V G E F I H C L Q N H P E H M </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	GPD1 protein serves as a glycerol-3-phosphate dehydrogenase, playing a crucial role in the metabolic conversion of glycerol-3-phosphate. This enzymatic activity involves the oxidation of glycerol-3-phosphate to dihydroxyacetone
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phosphate, a key step in glycolysis and gluconeogenesis pathways. By catalyzing this reaction, GPD1 contributes to the regulation of cellular energy metabolism and the balance of glycerolipid biosynthesis. The glycerol-3-phosphate dehydrogenase activity of GPD1 is essential for maintaining cellular homeostasis and energy production, making it a key player in metabolic processes with implications for various physiological functions.

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

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