Recombinant Human GPD1/GDP-C Protein (E.coli, His

Tag)

Catalog Number: PKSH030541



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Glycerol-3-Phosphate Dehydrogenase [NAD(+)] Cytoplasmic;GPD-C;GPDH-

C:GPD1:HTGTI

Species Human
Expression Host E.coli

Sequence Met 1-Met349

AccessionP21695Calculated Molecular Weight39.4 kDaObserved molecular weight33-37 kDaTagN-His

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin Please contact us for more information.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile 50mM Tris, 10% glycerol, pH 8.0

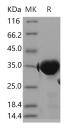
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

GPD1; also known as glycerolphosphate dehydrogenase 1; is a member of the NAD-dependent glycerol-3-phosphate dehydrogenase family. GPD1 catalyzes the reversible redox conversion of dihydroxyacetone phosphate (DHAP); thus plays a critical role in carbohydrate and lipid metabolism. It also reduces nicotine adenine dinucleotide (NADH) to glycerol-3-phosphate (G3P) and NAD+. Meanwhile; GPD1 and mitochondrial glycerol-3-phosphate dehydrogenase also form a glycerol phosphate shuttle that facilitates the transfer of reducing equivalents from the cytosol to mitochondria. Mutations in GPD1 gene are a cause of transient infantile hypertriglyceridemia.

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