

Recombinant Human GPD1/GDP-C Protein (Human Cells, His Tag)



Catalog Number: PKSH032505

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

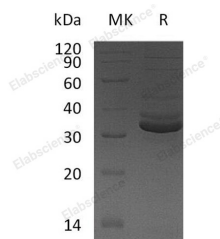
Description

Synonyms	Glycerol-3-Phosphate Dehydrogenase [NAD(+)] Cytoplasmic;GPD-C;GPDH-C;GPD1;HTGTI
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Met349
Accession	P21695
Calculated Molecular Weight	38.6 kDa
Observed molecular weight	32-48 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 10% Glycerol, pH 8.0.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

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.

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