Recombinant Protein Technical Manual

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

RPES5203

Product Data:

Product SKU: RPES5203

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P21695

Protein Information:

Molecular Mass:	38.6 kDa
AP Molecular Mass:	38 kDa
Tag:	C-6His
Bio-activity:	
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per µg 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 TrisHCl, 10% Glycerol, pH 8.0.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	Glycerol-3-Phosphate Dehydrogenase [NAD(+)] Cytoplasmic; GPD-C; GPDH-C; GPD1; HTGTI

Immunogen Information:

Sequence: Met 1-Met349

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.