

Recombinant Human GPD1 / Glycerolphosphate Dehydrogenase 1 Protein (His tag)

Cat.NO.: TP06824

3th Edition

Synonyms:GPD-C;GPDH-C;HTGTI

Description: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 nicotinic 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.

Form:PBS

Molecular Weight:39.4 kDa

Sequences:Met 1-Met349

Purity:> 95% by HPLC

Concentration:

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.