

Mitochondrial Glycerol-3-Phosphate Dehydrogenase (mGPD) Recombinant Protein | mGPD recombinant protein

Mitochondrial Glycerol-3-Phosphate Dehydrogenase (mGPD)

CATALOG #

AAA58754

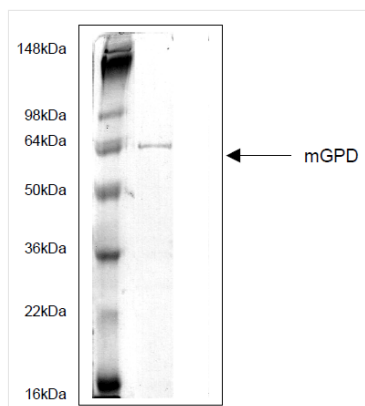
PRODUCT SYNONYMS

Mitochondrial Glycerol-3-Phosphate Dehydrogenase (mGPD); Glycerol-3-Phosphate Dehydrogenase 2; GPD2; Glycerophosphate Dehydrogenase-2 Ca(2+) - Responsive Mitochondrial FAD-Linked; Mitochondrial GPD; GPDm; GPD-M; GPDH-M; mtGPD; GDH2.; mGPD recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	>95% by SDS-PAGE
Form/Format	Liquid
Buffer	Buffered 50% glycerol

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for mGPD recombinant protein	Mitochondrial glycerol-3-phosphate dehydrogenase (mGPD) is a Ca ²⁺ -sensitive, FAD-binding protein, located on the outer surface of the inner mitochondrial membrane. mGPD catalyses the oxidation of glycerol-3-phosphate to dihydroxyacetone phosphate (DHAP) with concomitant reduction of the enzyme-bound FAD. Two isoforms have been described for mGPD. Isoform 1 comprises 727aa residues, whereas isoform 2 lacks 126aa residues of the N-terminus. Deficiency of mGPD appears to contribute to the impairment of glucose-stimulated insulin release in several animal models of non-insulin dependent diabetes mellitus. Recombinant mGPD comprises a 558 amino acid fragment (43-600) corresponding to the GlpA domain fragment of the mature mGPD protein and is expressed in E Coli with an amino-terminal hexahistidine tag. This product is not intended for therapeutic use.
Product Categories/Family for mGPD recombinant protein	Recombinant Proteins ; Mitochondrial Glycerol-3-Phosphate Dehydrogenase
References	Brown, L.J. et al., Gene 1996 172 (2): 309-12. Ferrer J. et al., Diabetes 1996 45 (2): 262-6.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

