Native Rabbit Glycerol-3-phosphate dehydrogenase

Cat. No. NATE-0313

Lot. No. (See product label)

Introduction

Description Glycerol-3-phosphate dehydrogenase (GPDH) is an enzyme that catalyzes the reversible redox conversion of dihydroxyacetone phosphate (aka glycerone phosphate, outdated) to sn-glycerol 3-phosphate. Glycerol-3-phosphate dehydrogenase serves as a major link between carbohydrate metabolism and lipid metabolism. It is also a major contributor of electrons to the electron transport chain in the mitochondria.

Synonyms Glycerol-3-phosphate dehydrogenase; GPDH; alpha glycerol-3-phosphate dehydrogenase; alphaGPDH; glycerolphosphate dehydrogenase; EC 1.1.1.8; 9075-65-4; α-glycerol phosphate dehydrogenase (NAD); α-glycerophosphate dehydrogenase (NAD); glycerol 1-phosphate dehydrogenase; glycerol phosphate dehydrogenase (NAD); glycerophosphate dehydrogenase (NAD); hydroglycerophosphate dehydrogenase; L-α-glycerol phosphate dehydrogenase; L-α-glycerophosphate dehydrogenase; L-glycerol phosphate dehydrogenase; L-glycerophosphate dehydrogenase; NAD-α-glycerophosphate dehydrogenase; NAD-dependent glycerol phosphate dehydrogenase; NAD-dependent glycerol-3-phosphate dehydrogenase; NAD-L-glycerol-3-phosphate dehydrogenase; NAD-linked glycerol 3-phosphate dehydrogenase; NADH-dihydroxyacetone phosphate reductase; glycerol-3-phosphate dehydrogenase (NAD)

Product Information

Species	Rabbit
Source	Rabbit Muscle
Appearance	White to off-white powder
Form	Lyophilized
EC Number	EC 1.1.1.8
CAS No.	9075-65-4
Molecular Weight	75200
Purity	Purified
Activity	> 15 U/mg solid
Contaminants	LDH: 0.3%PK: 0.3%TPI: 10%Aldolase: 0.05%Glycerol Kinase: 0.01
Specificity	> 100 U/mg protein
Pathway	Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glycerophospholipid biosynthesis, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem
Function	NAD binding; glycerol-3-phosphate dehydrogenase [NAD+] activity; protein homodimerization activity
Unit Definition	One unit will catalyze the reduction of one micromole of dihydroxyacetone phosphate to alpha-glycerophosphate per minute at pH 7.4 and 25°C.

Storage and Shipping Information

Storage	-20°C