

## 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is an enzyme that catalyzes the reversible redox conversion of dihydroxyacetone phosphate (aka glycerone phosphate, outdated) to sn-glycerol 3-phosphate.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;  $\alpha$ -glycerol phosphate dehydrogenase (NAD);  $\alpha$ -glycerophosphate dehydrogenase (NAD); glycerol 1-phosphate dehydrogenase; glycerol phosphate dehydrogenase (NAD); glycerophosphate dehydrogenase (NAD); hydroglycerophosphate dehydrogenase; L- $\alpha$ -glycerol phosphate dehydrogenase; L-glycerophosphate dehydrogenase; L-glycerol phosphate dehydrogenase; L-glycerophosphate dehydrogenase; NAD- $\alpha$ -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

<b>Species</b>	Rabbit
<b>Source</b>	Rabbit Muscle
<b>Appearance</b>	White to off-white powder
<b>Form</b>	Lyophilized
<b>EC Number</b>	EC 1.1.1.8
<b>CAS No.</b>	9075-65-4
<b>Molecular Weight</b>	75200
<b>Purity</b>	Purified
<b>Activity</b>	> 15 U/mg solid
<b>Contaminants</b>	LDH: 0.3%PK: 0.3%TPI: 10%Aldolase: 0.05%Glycerol Kinase: 0.01
<b>Specificity</b>	> 100 U/mg protein
<b>Pathway</b>	Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glycerophospholipid biosynthesis, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem
<b>Function</b>	NAD binding; glycerol-3-phosphate dehydrogenase [NAD+] activity; protein homodimerization activity
<b>Unit Definition</b>	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