

## 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an enzyme that catalyzes the reversible redox conversion of dihydroxyacetone phosphate (aka glyceraldehyde phosphate, outdated) to sn-glycerol 3-phosphate.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

<b>Species</b>	Rabbit
<b>Source</b>	Rabbit Muscle
<b>Appearance</b>	White suspension in ammonium sulphate
<b>Form</b>	Liquid
<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>	~170 units/mg protein
<b>Contaminants</b>	Aldolase < 0.001 % GAP-DH < 0.001 % LDH <0.01 %
<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** 2-8°C