# Native Rabbit Glycerol-3-phosphate dehydrogenase

*Cat. No. NATE-0313*

*Lot. No.* (See product label)

## Introduction

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| **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is an enzyme that catalyzes the reversible redox conversion of dihydroxyacetone phosphate (aka glycerone phosphate, outdated) to sn-glycerol 3-phosphate.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

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| **Species** | Rabbit |
| **Source** | Rabbit Muscle |
| **Appearance** | White suspension in ammonium sulphate |
| **Form** | Liquid |
| **EC Number** | EC 1.1.1.8 |
| **CAS No.** | 9075-65-4 |
| **Molecular Weight** | 75200 |
| **Purity** | Purified |
| **Activity** | ~170 units/mg protein |
| **Contaminants** | Aldolase < 0.001 % GAP-DH < 0.001 % LDH <0.01 % |
| **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

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| **Storage** | 2-8°C |

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| ***Storage*** | 2-8 ℃ |