

## Native Human Glyceraldehyde-3-phosphate Dehydrogenase

Cat. No. NATE-0280

Lot. No. (See product label)

### Introduction

**Description** Glyceraldehyde-3-phosphate dehydrogenase catalyzes the conversion of glyceraldehyde-3-phosphate to 1,3-bisphosphoglycerate as part of glycolysis. It has also been shown to have roles in initiation of apoptosis, transcription activation and the shuttling of ER to Golgi vesicles.

**Synonyms** EC 1.2.1.12; GAPDH; glyceraldehyde-3-phosphate dehydrogenase (phosphorylating); triosephosphate dehydrogenase; dehydrogenase, glyceraldehyde phosphate; phosphoglyceraldehyde dehydrogenase; 3-phosphoglyceraldehyde dehydrogenase; NAD<sup>+</sup>-dependent glyceraldehyde phosphate dehydrogenase; glyceraldehyde phosphate dehydrogenase (NAD<sup>+</sup>); glyceraldehyde-3-phosphate dehydrogenase (NAD<sup>+</sup>); NADH-glyceraldehyde phosphate dehydrogenase; glyceraldehyde-3-P-dehydrogenase; 9001-50-7

### Product Information

**Species** Human

**Source** Human erythrocytes

**Form** Lyophilized powder containing sodium Citrate buffer salts

**EC Number** EC 1.2.1.12

**CAS No.** 9001-50-7

**Activity** 50-150 units/mg protein

**Pathway** Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Gluconeogenesis, organism-specific biosystem; Gluconeogenesis, oxaloacetate => fructose-6P, organism-specific biosystem; Gluconeogenesis, oxaloacetate =>

**Function** NAD binding; NADP binding; glyceraldehyde-3-phosphate dehydrogenase (NAD<sup>+</sup>) (phosphorylating) activity; glyceraldehyde-3-phosphate dehydrogenase (NAD<sup>+</sup>) (phosphorylating) activity; oxidoreductase activity; peptidyl-cysteine S-nitrosylase activity; protein binding; transferase activity

**Unit Definition** One unit will reduce 1.0  $\mu$ mole of 3-phosphoglycerate to D-glyceraldehyde 3-phosphate per min in a coupled system with 3-phosphoglyceric phosphokinase at pH 7.6 at 25°C.

### Storage and Shipping Information

**Storage** -20°C