

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⁺-dependent glyceraldehyde phosphate dehydrogenase; glyceraldehyde phosphate dehydrogenase (NAD⁺); glyceraldehyde-3-phosphate dehydrogenase (NAD⁺); 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⁺) (phosphorylating) activity; glyceraldehyde-3-phosphate dehydrogenase (NAD⁺) (phosphorylating) activity; oxidoreductase activity; peptidyl-cysteine S-nitrosylase activity; protein binding; transferase activity

Unit Definition

One unit will reduce 1.0 μ 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