Creative Enzymes®

Native Escherichia coli Glycerokinase

Cat. No. NATE-0288

Lot. No. (See product label)

Introduction

Description	Glycerol kinase is a phosphotransferase enzyme involved in triglycerides and glycerophospholipids synthesis. Glycerol kinase catalyzes tge MgATP-dependent phosphorylation of glycerol to produce sn-glycerol-3-phosphate and is the rate limiting enzyme in the utilization of glycerol. It is also subject to feedback regulation by fructose-1,6-bisphosphate.
Applications	Glycerol kinase (glpK) was used to study the effects of pain controlling neuropeptides on human fat cell lipolysis.
Synonyms	EC 2.7.1.30; glycerokinase; GK; ATP:glycerol-3-phosphotransferase; glycerol kinase (phosphorylating); glyceric kinase; 9030-66-4

Product Information

Source	Escherichia coli
Form	Type I, lyophilized powder, Partially purified lyophilized powder, balance is primarily salts and EDTA; Type II, ammonium sulfate suspension, Suspension in 3.1 M (NH4)2SO4 pH 7.3, with 1% BSA and 2% trehalose.
EC Number	EC 2.7.1.30
CAS No.	9030-66-4
Activity	Type I, 50-100 units/mg protein; Type II, 300-600 units/mL.
Unit Definition	One unit will convert 1.0 µmole of glycerol and ATP to L-α-glycerophosphate and ADP per min at pH 9.8 at 25°C in a coupled system with PK/LDH.

Storage and Shipping Information

Storage	−20°C