

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 the 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 μ mole 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