Creative Enzymes®

Native Propionibacterium freudenreichii (shermanii) Fructose-6-phosphate Kinase, Pyrophosphate-dependent

Cat. No. NATE-0253

Lot. No. (See product label)

Introduction

Description	Fructose-1,6-bisphosphatase (FBP) is an important enzyme in glucose metabolism. It catalyzes the hydrolysis of fructose-1,6-bisphosphate to fructose-6-phosphate and inorganic phosphate. Fructose-6-phosphate kinase converts fructose-6-phosphate into fructose 1,6-bisphophate in the rate limiting step of the glycolysis cycle.
Applications	FBP was used to study the kinetic mechanism of pyrophosphate-dependent phosphofructokinase from Propionibacterium freudenreichii.
Synonyms	EC 2.7.1.90; 6-phosphofructokinase (pyrophosphate); pyrophosphate-fructose 6-phosphate 1-phosphotransferase; inorganic pyrophosphate-dependent phosphofructokinase; inorganic pyrophosphate-phosphofructokinase; pyrophosphate-dependent phosphofructo-1-kinase; pyrophosphate-fructose 6-phosphate phosphotransferase; 55326-40-4

Product Information

Source	Propionibacterium freudenreichii (shermanii)
Form	lyophilized powder; Contains imidazole salts and stabilizer
EC Number	EC 2.7.1.90
CAS No.	55326-40-4
Activity	4.0-8.0 units/mg protein
Unit Definition	One unit will convert 1.0 µmole of pyrophosphate and fructose 6-phosphate to fructose 1,6-diphosphate and inorganic phosphate per min at pH 7.4 at 30°C.

Storage and Shipping Information

Storage	−20°C