Creative Enzymes®

Glucokinase from Escherichia coli, Recombinant

Cat. No. NATE-1571

Lot. No. (See product label)

Introduction

Description	Glucokinase (EC 2.7.1.2) is an enzyme that facilitates phosphorylation of glucose to glucose-6-phosphate. Glucokinase occurs in cells in the liver, pancreas, gut, and brain of humans and most other vertebrates. In each of these organs it plays an important role in the regulation of carbohydrate metabolism by acting as a glucose sensor, triggering shifts in metabolism or cell function in response to rising or falling levels of glucose, such as occur after a meal or when fasting. Mutations of the gene for this enzyme can cause unusual forms of diabetes or hypoglycemia.
Synonyms	EC 2.7.1.2; glucokinase; glucokinase (phosphorylating); 9001-36-9; GCK; FGQTL3; GK; GLK; HHF3; HK4; HKIV; HXKP; LGLK; MODY2

Product Information

Species	Escherichia coli
Source	E. coli
Form	3.2 M ammonium sulphate
EC Number	EC 2.7.1.2
CAS No.	9001-36-9
Molecular Weight	35 kDa
Purity	>95% as judged by SDS-PAGE
Activity	5.8 U/mg protein, 98.6 U/ml.
Optimum pH	7.5
Optimum temperature	25 °C
Specificity	Glucose

Storage and Shipping Information

Storage	Glucokinase should be stored at 4 °C, remaining stable up to 3 years under these storage conditions.