

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 (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.