

Galactokinase from Human, Recombinant

Cat. No. NATE-0276

Lot. No. (See product label)

Introduction

Description Galactokinase catalyzes the phosphorylation of α D-galactose to produce galactose-1-phosphate as part of the Leloir pathway.

Synonyms galactokinase (phosphorylating); ATP:D-galactose-1-phosphotransferase; EC 2.7.1.6; galactokinase; GALK; GALK1; GALK2

Product Information

Species Human

Source E. coli

Form Supplied as a solution in 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 20% glycerol, 3 mM DTT and 10-200 mM imidazole.

EC Number EC 2.7.1.6

Molecular Weight 42 kDa

Pathway Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Galactose catabolism, organism-specific biosystem; Galactose metabolism, organism-specific biosystem; Galactose metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem

Function ATP binding; galactokinase activity; galactose binding; kinase activity; nucleotide binding; transferase activity

Unit Definition One unit will convert 1.0 picomole of galactose to galactose-1-phosphate per minute at pH 7.4 at 25°C.

Storage and Shipping Information

Storage -70°C