

## Galactokinase from Human, Recombinant

Cat. No. NATE-0276

Lot. No. (See product label)

### Introduction

**Description** Galactokinase catalyzes the phosphorylation of  $\alpha$ 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