

Recombinant Human Liver Glucokinase

CATALOG #: 7776-10

SOURCE: E. coli

PURITY: >77% by SDS-PAGE

MOL. WEIGHT: 53.4 kDa

FORMULATION: Liquid in 50 mM potassium phosphate pH 7.4, 50 mM sodium

chloride, 0.5 mM DTT, 0.5 mM EDTA, and 2.5% glycerol.

CONCENTRATION: 14.8 mg/ml

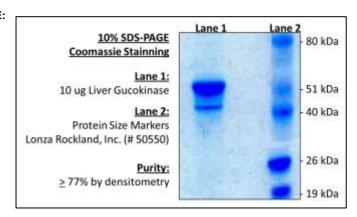
STORAGE CONDITIONS:

The protein is best stored in working aliquots at -80 °C. Avoid freeze/thaw cycles.

DESCRIPTION:

Glucose is phosphorylated to glucose-6-phosphate by glucokinases. This gene is alternatively spliced to generate three different forms of the enzyme; one found in the pancreas and two found in the liver. The main function of this gene is to regulate carbohydrate metabolism. Recombinant human liver Glucokinase (Accession# NP_277042)) has a C-terminal FLAG tag and has 474 amino acid residues. It can be useful for studies including enzyme kinetics, activator screening and kinase selectivity.

SDS-PAGE:



SPECIFIC ACTIVITY: 662 pmol/min/μg. One unit is defined as the amount of enzyme that will convert 1 pmol of NADP to NADPH at 30°C. Assay conditions: 25 mM HEPES, pH 7.5, 2 mM MgCl₂, 1.0 mM DTT, 0.5 mM NADP, 2 mM ATP, 25 mM glucose, 100 μg/ml BSA, 20 units/ml glucose 6-phosphate dehydrogenase, and 10 nM human liver glucokinase at 30°C for 30 min.

ACTIVATION: (\pm) Ro 28-0450 (100 μ M) activated human liver glucokinase 868% verses control measured at glucose [S]_{0.5}.

RELATED PRODUCTS:

Cat# 3153-100 GCK (Glucokinase) Antibody
Cat# 3154-100 GCK (Glucokinase) Antibody

Cat# 7777-10 Recombinant Human Pancreatic Glucokinase

Cat# K616-100 Glucose and Sucrose Assay Kit

Cat# K606-100 Glucose Assay Kit
Cat# K686-100 Glucose Assay Kit II

Cat# K786-100 Glucose Dehydrogenase Activity Assay Kit

Cat# K657-100 Glucose-6-Phosphate Assay Kit

Cat# K757-100 Glucose-6-Phosphate Dehydrogenase Activity Assay Kit

Cat# K618-100 Maltose and Glucose Assay Kit

• Cat# K687-100 PicoProbe™ Glucose-6-Phosphate Assay Kit

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