

Recombinant Human Galactokinase 1, His-tagged

Cat. No. GALK1-390H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GALK1 (aa. 1-392) produced in <i>E.coli</i> is a 45.1 kDa protein. It was fused to His-Tag at N terminus.
Species	Human
Source	E.coli
ProteinLength	1-392 a.a.
Description	Galactokinase is a major enzyme for the metabolism of galactose and its deficiency causes congenital cataracts during infancy and presenile cataracts in the adult population. GALK1 sequence shares the greatest level of conservation, 44.5% identity with that from E. coli and 34.6% amino acid identity with the product of the human GALK2 gene.
Purity	95%.
Preparation	0.1mg/0.67 ml.
Tested Application	E, WB, MS.
Buffer	10 mM Tris, pH 8.0, 0.002% NaN ₃ , 3mM NaCl, 2.5mM.
Species Reactivity	n/aH.

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Storage Store at -70°C with any protein, exposing GALK1 recombinant protein to repeated freeze/thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Pathways Amino sugar and nucleotide sugar metabolism; Galactose metabolism; Metabolic pathways; Metabolism of carbohydrates

GENE INFORMATION

Gene Name [GALK1 galactokinase 1 \[Homo sapiens \]](#)

Synonyms galactokinase 1; GK1; GALK; GALK1; EC 2.7.1.6; Galactose kinase

Gene ID [2584](#)

mRNA Refseq [NM_000154](#)

Protein Refseq [NP_000145](#)

MIM [604313](#)

UniProt ID [P51570](#)

Chromosome Location 17q24

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

Cartoon diagram of a human galactokinase 1 monomer in

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complex with
galactose (red) and
an ATP analogue
(orange). A
magnesium ion is
visible as a green
sphere.

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