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*E.coli*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% NaN3, 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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