Recombinant Human GALK1, His-tagged

Cat. No. GALK1-28118TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GALK1 with a N terminal His tag. 412 amino acids with a predicted MWt 44.4 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	392 amino acids
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.
Conjugation	HIS
Molecular Weight	44.400kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 10% Glycerol
Storage	Please see Notes section

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Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAALRQPQVA ELLAEARRAF REEFGAEPEL AVSAPGRVNL IGEHTDYNQG LVLPMALELM TVLVGSPRKD GLVSLLTTSE GADEPQRLQF PLPTAQRSLE PGTPRWANYV KGVIQYYPAA PLPGFSAVVV SSVPLGGGLS SSASLEVATY TFLQQLCPDS GTIAARAQVC QQAEHSFAGM PCGIMDQFIS LMGQKGHALL IDCRSLETSL VPLSDPKLAV LITNSNVRHS LASSEYPVRR RQCEEVARAL GKESLREVQL EELEAARDLV SKEGFRRARH VVGEIRRTAQ AAAALRRGDY RAFGRLMVES HRSLRDDYEV SCPELDQLVE AALAVPGVYG SRMTGGGFGG CTVTLLEASA APHAMRHIQE HYGGTATFYL SQAADGAKVL CL
Sequence Similarities	Belongs to the GHMP kinase family. GalK subfamily.

GENE INFORMATION

Gene Name	GALK1 galactokinase 1 [Homo sapiens]
Official Symbol	GALK1
Synonyms	GALK1; galactokinase 1; GALK; galactokinase;
Gene ID	2584
mRNA Refseq	NM_000154
Protein Refseq	NP_000145
MIM	604313
Uniprot ID	P51570

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Chromosome Location	17q23-q25
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;
Function	ATP binding; galactokinase activity; galactose binding; kinase activity; nucleotide binding;

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