

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: 8.00 Constituents: 0.32% Tris HCl, 10% Glycerol
Storage	Please see Notes section

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids

MGSSHHHHHH SSSLVPRGSH MAALRQPQVA ELLAEARRAF REEFGAEPPEL
 AVSAPGRVNL IGEHTDYNQG LVLPMALERM TVLVGSPRKD GLVSLTTSE
 GADEPQRLQF PLPTAQRSLE PGTPRWANYV KGVIQYYPAA PLPGFSAVVV
 SSVPLGGGLS SSASLEVATY TFLQQLCPDS GTIAARAQVC QQAHSFAGM
 PCGIMDQFIS LMGQKGHALL IDCRSLETSL VPLSDPKLAV LITNSNVRHS
 LASSEYPVRR RQCEEVARAL GKESLREVQL EELEAARDLV SKEGFRRARH
 VVGEIRRFAQ AAAALRRGDY RAFGRMLVES HRSLRDDYEV SCPELDQLVE
 AALAVPGVYG SRMTGGGFGG CTVTLEASA 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**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;

 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA