

## Recombinant Human GALK1, His-tagged

**Cat. No.** GALK1-28117TH    **Lot. No.** (See product label)

### SPECIFICATION

|                              |                                                                                                                                                                                |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>      | Recombinant full length protein (Human). This protein has an N-terminal His Tag.                                                                                               |
| <b>Species</b>               | Human                                                                                                                                                                          |
| <b>Source</b>                | E.coli                                                                                                                                                                         |
| <b>Description</b>           | 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. |
| <b>Conjugation</b>           | HIS                                                                                                                                                                            |
| <b>Form</b>                  | Liquid                                                                                                                                                                         |
| <b>Purity</b>                | >95% by SDS-PAGE                                                                                                                                                               |
| <b>Storage buffer</b>        | Preservative: 0.002% Sodium Azide<br>Constituents: 3mM Sodium chloride, 10mM Tris, 2.5mM Imidazole, pH 8.                                                                      |
| <b>Storage</b>               | Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.                                                                                                               |
| <b>Sequence Similarities</b> | Belongs to the GHMP kinase family. Galk subfamily.                                                                                                                             |
| <b>Full Length</b>           | Full L.                                                                                                                                                                        |

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## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | GALK1 galactokinase 1 [ Homo sapiens ]                                                                                                                                                                                                                                                       |
| <b>Official Symbol</b>     | GALK1                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>            | GALK1; galactokinase 1; GALK; galactokinase;                                                                                                                                                                                                                                                 |
| <b>Gene ID</b>             | 2584                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>         | NM_000154                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>      | NP_000145                                                                                                                                                                                                                                                                                    |
| <b>MIM</b>                 | 604313                                                                                                                                                                                                                                                                                       |
| <b>Uniprot ID</b>          | P51570                                                                                                                                                                                                                                                                                       |
| <b>Chromosome Location</b> | 17q23-q25                                                                                                                                                                                                                                                                                    |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | ATP binding; galactokinase activity; galactose binding; kinase activity; nucleotide binding;                                                                                                                                                                                                 |

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