

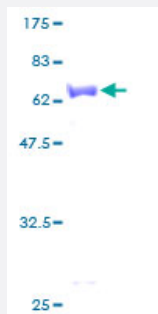
Full-Length

# GALK1 (Human) Recombinant Protein (P01)

Catalog # H00002584-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human GALK1 full-length ORF ( AAH01166, 1 a.a. - 392 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MAALRQPQVAELLAEARRAFREFGAPELAVSAPGRVNLIGEHTDYNQGLVLPMALELMTVLV  
GSPRKDGLVSLTTSEGADEPQRLQFPLPTAQRSLEPGTPRWANYVKGVIQYPAAPLPGFSAV  
VVSSVPLGGGLSSSASLEVATYTFLLQQLCPDSGTIAARAQVCQQAHSFAGMPCGIMDQFISLMG  
QKGHALLIDCRSLETSLVPLSDPKLAVLITNSNVRHSLASSEYPVRRRQCEEVARALGKESLREV  
QLEELEAARDLVSKEGFRRARHVVGIEIRRTAQAAAAALRRGDYRAFGRLMVESHRSRLRDDYEVS  
PELDQLVEAALAVPGVYGSRTGGGFGGCTVTLEASAAPHAMRHIQEHYGGTATFYLSQAADG  
AKVLCL

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

68.86

### Interspecies Antigen Sequence

Mouse (88); Rat (88)

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

|                     |                                                                          |
|---------------------|--------------------------------------------------------------------------|
| Storage Buffer      | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
| Storage Instruction | Store at -80°C. Aliquot to avoid repeated freezing and thawing.          |
| Note                | Best use within three months from the date of receipt of this protein.   |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — GALK1

|                     |                                                                                                                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">2584</a>                                                                                                                                                                                |
| GeneBank Accession# | <a href="#">BC001166</a>                                                                                                                                                                            |
| Protein Accession#  | <a href="#">AAH01166</a>                                                                                                                                                                            |
| Gene Name           | GALK1                                                                                                                                                                                               |
| Gene Alias          | GALK, GK1                                                                                                                                                                                           |
| Gene Description    | galactokinase 1                                                                                                                                                                                     |
| Omim ID             | <a href="#">230200 604313</a>                                                                                                                                                                       |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                           |
| Gene Summary        | 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. [provided by RefSeq] |
| Other Designations  | -                                                                                                                                                                                                   |

## Pathway

- [Amino sugar and nucleotide sugar metabolism](#)
- [Galactose metabolism](#)
- [Metabolic pathways](#)

## Disease

- [Cardiovascular Diseases](#)
- [Cataract](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Galactosemias](#)
- [Genetic Predisposition to Disease](#)