A Reliable Research Partner in Life Science and Medicine

## Recombinant Human GALK1/Galactokinase Protein (His Tag)

Catalog Number: PKSH033673

Note: Centrifuge before opening to ensure complete recovery of vial contents.

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Species Human

Source E.coli-derived Human GALK1; Galactokinase protein Met1-Leu392, with an C-terminal

His

Calculated MW43.3 kDaObserved MW45 kDaAccessionP51570

**Bio-activity** Not validated for activity

## **Properties**

**Purity** > 85 % as determined by reducing SDS-PAGE.

**Concentration** Subject to label value.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

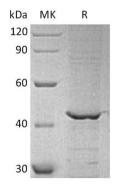
**Storage** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel

packs. Upon receipt, store it immediately at < - 20°C.

**Formulation** Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0.

## Data



> 85 % as determined by reducing SDS-PAGE.

## Background

Galactokinase belongs to the GHMP kinase family and GalK subfamily. Galactokinase is more important to the galactose metabolism pathway. It modifies galactose to create a similar molecule called Galactose-1-Phosphate. Thus; a series of additional steps converts Galactose-1-Phosphate to another simple sugar Glucose; which is the main energy source for most cells. Galactokinase deficiency results in Galactosemia II; an autosomal recessive deficiency characterized by congenital cataracts during infancy and presentle cataracts in the adult population. The cataracts are secondary to accumulation of Galactitol in the lenses.

Web:www.elabscience.cn