



Recombinant Protein Technical Manual
Recombinant Human GALK1/Galactokinase Protein
(His & GST Tag)
RPES2745

Product Data:

Product SKU: RPES2745

Size: 50µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: P51570

Protein Information:

Molecular Mass: 70 kDa

AP Molecular Mass: 60 kDa

Tag: N-His & GST

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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 sterile 20mM Tris, 500mM NaCl, 2mM GSH, pH 8.0

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Galactokinase; Galactose Kinase; GALK1; GALK

Immunogen Information:

Sequence: Met 1-Leu 392

Background:

Galactokinase, also known as Galactose kinase, GALK and GALK1, is a protein which belongs to the GHMP kinase family and GalK subfamily. Galactokinase / GALK1 is a major enzyme for galactose metabolism. Galactokinase (GALK) deficiency is an autosomal recessive disorder characterized by elevation of blood galactose concentration and diminished galactose-phosphate, leading to the production of galactitol. Defects in GALK1 are the cause of galactosemia II (GALCT2) which II is an autosomal recessive deficiency characterized by congenital cataracts during infancy and presenile cataracts in the adult population. The cataracts are secondary to accumulation of galactitol in the lenses.