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

Catalog No. PKSH030368

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

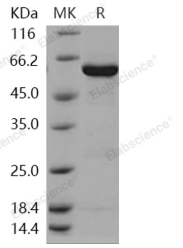
Description

Synonyms	Galactokinase;Galactose Kinase;GALK1;GALK
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1-Leu 392
Accession	P51570
Calculated Molecular Weight	70.0 kDa
Observed molecular weight	60 kDa
Tag	N-His-GST
Bioactivity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
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 sterile solution of 20mM Tris, 500mM NaCl, 2mM GSH, pH 8.0
Reconstitution	Not Applicable

Data



> 90 % as determined by reducing SDS-PAGE.

Background

Galactokinase; also known as Galactose kinase; GALK and GALK1; is a protein which belongs to theGHMP 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-1-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.

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