Recombinant Human GALK1/Galactokinase Protein (His Tag)

Catalog Number: PKSH033673

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

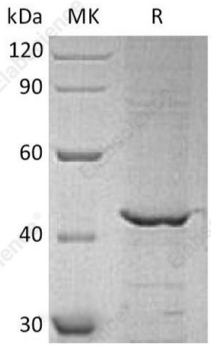
Description

Species	Human
Source	E.coli-derived Human GALK1;Galactokinase protein Met1-Leu392, with an C-terminal His
Calculated MW	43.3 kDa
Observed MW	45 kDa
Accession	P51570
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, 15% Trehalose, 10% Glycerol, 0.1% Tween80, 1mM TCEP, 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 presenile cataracts in the adult population. The cataracts are secondary to accumulation of Galactitol in the lenses.

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