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Datasheet for ABIN7319607 **GALK1 Protein (His tag)**

Overview

Quantity:	50 µg
Target:	GALK1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GALK1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human GALK1/Galactokinase Protein (His Tag)
Sequence:	Met1-Leu392
Characteristics:	Recombinant Human GALK1 is produced by our E.coli expression system and the target gene encoding Met1-Leu392 is expressed with a 6His tag at the C-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	GALK1
Alternative Name:	GALK1/Galactokinase (GALK1 Products)
Background:	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

Target Details

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.

Synonym: Galactokinase, Galactose Kinase, GALK1, GALK

Molecular Weight: 43.3 kDa

UniProt: [P51570](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 8.0.

Storage: -20 °C

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