

## 32-8064: Recombinant Human Galactokinase/GALK1 (C-6His)(Discontinued)

**Gene :** GALK1  
**Gene ID :** 2584  
**Uniprot ID :** P51570

### Description

Source: E.coli.  
MW :43.3kD.

Recombinant Human Galactokinase 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. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 8.0.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MAALRQPQVAELLAEARRAFREFGAPELAVSAPGRVNLIGEHTDYNQGLVLPMALELMTVLVGSPrKDGLV  
SLLTTSEGADEPQRLQFPLPTAQRSLEPGTPRWANYVKGVIQYYPAAPLPGFSAVVVSSVPLGGGLSSASLEVA  
TYTFLQQLCPDSGTIAARAQVCQAEHSFAGMPCGIMDQFISLMGQKGHALLIDCRSLETSLVPLSDPKLAVLIT  
NSNVRHSLASSEYPVRRRQCEEVARALGKESLREVQLEEEAARDLVSKEGFRRARHVVEIRRTAQAAAAALR  
RGDYRAFGRLMVESHRSRDDYEVSCPELDQLVEAALAVPGVYGSrMTGGGFGGCTVTLLLEASAAPHAMRHI  
QEHYGGTATFYLSQAADGAKVLCLEHHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.