

**GALK1, 1-392aa, Human, His tag, E.coli**

**Cat.NO.: TP02190**

3th Edition

**Synonyms:**Galactokinase, GALK, GK1

**Description:**GALK1, also often designated galactokinase, is important in the first step of the galactose metabolism pathway. (ATP + D-galactose = ADP + alpha-D-galactose 1-phosphate) Defects in GALK1 are the cause of galactosemia II. It is an autosomal recessive deficiency characterized by congenital cataracts during infancy and presenile cataracts in the adult population.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl, 1mM DTT

**Molecular Weight:**44.4 (412aa) confirmed by MALDI-TOF

**Sequences:**

```
MGSSHHHHHSSGLVPRGSHMAALRQPQVAELLAEARRAFREFGAEPPELAVSAPGRVNLIGEHTDYNQGLVLP  
MALELMTVLVGSPPKDGSLVLLTTSEGADEPQRLQFPLPTAQRSLEPGTTPRWANYVKGVIQYYPAAPLPGFSAVVV  
SSVPLGGGLSSASLEVATYTFLLQQLCPDSGTIAARAQVCQQAHEFSFAGMPCGIMDQFISLMGQKGHALLIDCRSL  
ETSLVPLSDPKLAVLITNSNVRHSLASSEYPVRRRQCEEVARALGKESLREVQLEELEAARDLVSKEGFRRARHVV  
GEIRRTAQAAAALRRGDYRAFGRLMVESHRLRDDYEVSCPELDQLVEAALAVPGVYGSRTGGGFGGCTVTLLE  
ASAAPHAMRHIQEHYGGTATFYLSQAADGAKVLCL
```

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.