

## 32-3024: GALK1 Recombinant Protein

**Alternative Name :** Galactose kinase,GK1,GALK,EC 2.7.1.6,GALK1.

### Description

Source : Escherichia Coli. GALK1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 412 amino acids (1-392 a.a.) and having a molecular mass of 44.4 kDa. The GALK1 is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques. GALK1 enzyme is needed in the first step of the galactose metabolism pathway. (ATP + D-galactose = ADP + alpha-D-galactose 1-phosphate). GALK1 deficiency lead galactosemia II which is an autosomal recessive deficiency known 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

<b>Amount :</b>	20 µg
<b>Purification :</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Content :</b>	GALK1 Human solution containing 20mM Tris pH-8, & 10% glycerol.
<b>Storage condition :</b>	GALK1 Human although stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.
<b>Amino Acid :</b>	MGSSHHHHHH SSSLVPRGSH MAALRQPQVA ELLAEARRAF REEFGAEPPEL AVSAPGRVNL IGEHTDYNQG LVLPMALELM TVLVGSPRKD GLVSLTSE GADEPQRLQF PLPTAQRSLE PGTPRWANYV KGVIQYYPAA PLPGFSAVVV SSVPLGGGLS SSASLEVATY TFLQQLCPDS GTIAARAQVC QAEHSFAGM PCGIMDQFIS LMGQKGHALL IDCRSLETSL VPLSDPKLAV LITNSNVRHS LASSEYPVRR RQCEEVARAL GKESLREVQL EELEAARDLV SKEGFRRARH VVGEIRRTAQ AAAALRRGDY RAFGRMLVES HRSLRDDYEV SCPELDQLVE AALAVPGVYG SRMTGGGFGG CTVTLLEASA APHAMRHIQE HYGGTATFYL SQAADGAKVL CL.