

## GALK1 Human

**Description:**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.

Catalog #:PKPS-271

For research use only.

**Synonyms:**Galactose kinase, GK1, GALK, EC 2.7.1.6, GALK1.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MAALRQPQVA ELLAEARRAF  
REEFGAEPPEL AVSAPGRVNL IGEHTDYNQG LVLPMLELM TVLVGSPRKD GLVSLTTSE  
GADEPQRLQF PLPTAQRSLE PGTPRWANYV KGVQIYYPAA PLPGFSAVVV SSVPLGGGLS  
SSASLEVATY TFLQQLCPDS GTIAARAQVC QQAHSFAGM PCGIMDQFIS LMGQKGHALL  
IDCRSLETSL VP

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

GALK1 Human solution containing 20mM Tris pH-8, & 10% glycerol.

**Stability:**

GALK1 Human although stable at 4°C for 1 week, should be stored desiccated below -18°C.  
Please prevent freeze thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

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.

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