
Product Data Sheet

Product Name: GALK1 Human
 Cat. No.: GP22519
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Galactose kinase; GK1; GALK; EC 2.7.1.6; GALK1.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MAALRQPQVA ELLAEARRAF REEFGAEPEL AVSAPGRVNL IGEHTDYNQG LVLPMAL ELM TVLVGSPRKD GLVSLTSE GADEPQRLQF PLPTAQRSLE PGTPRWANYV KGVIQYYPAA PLPGFSAVVV SSVPLGGGLS SSASLEVATY TFLQQLCPDS GTIAARAQVC QQA EHSFAGM PCGIMDQFIS LMGQKGHALL IDCRSLETSL VPLSDPKLAV LITNSNVRHS LASSEYPVRR RQCEEVARAL GKESLREVQL EELEAARDLV SKEGFRRARH VVGEIRRTAQ AAAALRRGDY RAFGRLMVES HRSLRDDYEV SCPELDQLVE AALAVPGVYG SRMTGGGFGG CTVTLLEASA APHAMRHIQE HYGGTATFYL SQAADGAKVL CL.</p>		
Formulation	GALK1 Human solution containing 20mM Tris pH-8, & 10% glycerol.		

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 leads to 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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

GALK1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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chain containing 412 amino acids (1-392 a.a.) and having a molecular mass of 44.4 kDa. The GALK1 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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