
Product Data Sheet

Product Name: KRT19 Human, His
 Cat. No.: GP23776
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Keratin type I cytoskeletal 19; Cytokeratin-19; CK-19; Keratin-19; K19; KRT19; CK19; K1CS; MGC15366.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMTSYSYR QSSATSSFGG LGGGSVRFPG GVAFRAPSIH GSGGGRGVSV SSARFVSSSS SGAYGGGYGG VLTASDGLLA GNEKLTMQNL NDRLASYLDK VRALEAANGE LEVKIRDWYQ KQGPGPSRDY SHYYTTIQDL RDKILGATIE NSRIVLQIDN ARLAADDFT RT KFETEALRM SVEADINGLR RVLDELTLAR TDLEMQIEGL KEELAYLKKH HEEEISTLRG QVGGQVSVEV DSAPGTDLAK ILSDMRSQYE VMAEQNRKDA EAWFTSRTEE LNREVAGHTE QLQMSRSEVT DLRRTLQGLE IELQSLSMK AALEDTLAET EARFGAQLAH IQALISGIEA QLGDVRADSE RQNQEYQRLM DIKSRLQEI ATYRSLLLEGQ EDHYNLSAS KVL.		
Formulation	The KRT19 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

CTK-19 is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. Unlike its related family members, this smallest known acidic cytokeratin is not paired with a basic cytokeratin in epithelial cells. It is specifically expressed in the periderm, the transiently superficial layer that envelopes the developing epidermis. The type I cytokeratins are clustered in a region of chromosome 17q12-q21.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

Background

KRT19 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 423 amino acids (1-400) and having a molecular mass of 46.5kDa. KRT19 is fused to a 23 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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