

## Product Data Sheet

Product Name: KRT5 Human  
 Cat. No.: GP23782  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Keratin 5; KRT5; EBS2; Epidermolysis Bullosa Simplex 2 Dowling-Meara/Kobner/Weber-Cockayne Types; Keratin 5 (Epidermolysis Bullosa Simplex;Dowling-Meara/Kobner/Weber-Cockayne Types); 58 KDa Cytokeratin; Type-II Keratin Kb5; CK-5; K5; DDD1; CK5; DDD; KRT5A; cytokeratin-5; Keratin; Type II Cytoskeletal 5; Cytokeratin-5; Keratin-5.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MGSMSRQSSV SFRSGGSRSF STASAITPSV        SRTSFTSVSR SGGGGGGGFG RVSLAGACGV GGYGSRSLYN LGGSKRISIS        TSGGSFRNRF GAGAGGGYGF GGGAGSGFGF GGGAGGGFGL GGGAGFGGGF        GPGFPVCPP GGIQEVTVNQ SLLTPLNLQI DPSIQRVRTE EREQIKTLNN        KFASFIDKVR FLEQQNKVLD TKWTLLQEQG TKTVRQNLEP LFEQYINNLR        RQLDSIVGER GRLDSELRNM QDLVEDFKNK YEDEINKRTT AENEFVMLKK        DVDAAYMNKV ELEAKVDALM DEINFMKMFF DAELSQQMTH VSDTSVVLSM        DNNRNLDLDS IIAEVKAQYE EIANRSRTEA ESWYQTKYEE LQQTAGRHGD        DLRNTKHEIS EMNRMIQRLR AEIDNVKKQC ANLQNAIADA EQRGELALKD        ARNKLAEELE ALQKAKQDMA RLLREYQELM NTKLALDVEI ATYRKLLEGE        ECRLSGEGVG PVNISVVTSS VSSGYGSGSG YGGGLGGGLG GGLGGGLAGG        GSGSYSSSS GGVGLSGGLS VGGSGFSASS GRGLGVGFGS GGGSSSSVKF        VSTTSSSRKS FKS.</p>		
Formulation	The KRT5 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.		

### Introduction

Cytokeratin 5 (KRT5) belongs to the keratin gene family. The type II cytokeratins are comprised of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed throughout differentiation of simple and stratified epithelial tissues.

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

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The type II cytokeratins are clustered in a region of chromosome 12q12-q13. The KRT5 type II cytokeratin is specifically expressed in the basal layer of the epidermis with family member KRT14. Mutations in these genes are linked with a complex of diseases termed epidermolysis bullosa simplex.

### 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). Please avoid freeze thaw cycles.

### Background

KRT5 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 613 amino acids (1-590) and having a molecular mass of 64.8 kDa. KRT5 is fused to a 23 amino acid His-tag at N-terminus.

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