

## 32-4082: Recombinant Human Cytokeratin 5

### Alternative Name :

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,

### Description

Source : Escherichia Coli. 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. 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. 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.

### Product Info

**Amount :** 20 µg

**Purification :** Greater than 85% as determined by SDS-PAGE.

**Content :** The KRT5 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.

**Storage condition :** 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.

**Amino Acid :**  
 MGSSHHHHHH SGLVPRGSH MGSMSRQSSV SFRSGGSRSF STASAITPSV SRTSFTSVSR  
 SGGGGGGGFG RVSLAGACGV GYGSRSLYN LGGSKRISIS TSGGSFRNRF GAGAGGGYGF  
 GGGAGSGFGF GGGAGGGFGL GGGAGFGGGF GPGFPVPCPP GGIQEVTVNQ SLLTPLNLQI  
 DPSIQRVRTE EREQIKTLNN KFASFDKVR FLEQQNKVLD TKWTLLQEQG TKTVRQNLEP LFEQYINNLR  
 RQLDSIVGER GRLDSELNRM QDLVEDFKNK YEDEINKRTT AENEFVMLKK DVDAAYMNKV ELEAKVDALM  
 DEINFMKMFF DAELSQQMTH VS DTSVVLMS DNNRNLDLDS IIAEVKAQYE EIANRSRTEA ESWYQTKYEE  
 LQQTAGRHDG DLRNTKHEIS EMNRMIQRLR AEIDNVKKQC ANLQNAIADA EQRGELALDK ARNKLAEELE  
 ALQKAKQDMA RLLREYQELM NTKLALDVEI ATYRKLEGE ECRLSGEGVG PVNISVVTSS VSSGYGSGSG  
 YGGGLGGGLG GGLGGGLAGG GSGSYSSSS GGVLGGGLS VGGSGFSASS GRGLGVGFGS  
 GGGSSSVKF VSTTSSSRKS FKS.

