

# Recombinant human KRT5 protein

Catalog Number: ATGP2640

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-590aa

### UniProt No.

P13647

### NCBI Accession No.

AAH24292

### Alternative Names

Keratin 5, CK5, DDD, K5, KRT5A

## PRODUCT SPECIFICATION

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### Molecular Weight

64.8 kDa (613aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

KRT5 is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the basal layer of the epidermis with family member KRT14. Mutations in these genes have been associated with a complex of diseases termed epidermolysis bullosa simplex. Recombinant human KRT5 protein, fused to His-tag at N-terminus, was expressed in E. coli

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## Amino acid Sequence

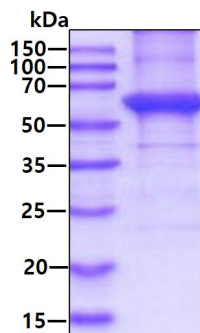
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RVSLAGACGV GYGSRSLYN LGGSKRISIS TSGGSFRNRF GAGAGGGYGF GGGAGSGFGF GGGAGGGFGL  
GGGAGFGGGF GPGFPVCPG GGIQEVTVNQ SLLTPLNLQI DPSIQVRTE EREQIKTLNN KFASFIDKVR FLEQQNKVLD  
TKWTLLEQEQ TKTVRQNLPE LFEQYINNLR RQLDSIVGER GRLDSELNRM QDLVEDFKNK YEDEINKRTT AENEFVMLKK  
DVDAAYMNKV ELEAKVDALM DEINFMKMFF DAELSQMOTH VSDTSVVLMS DNNRNLDLDS IIAEVKAQYE EIANRSRTEA  
ESWYQTKYEE LQQTAGRHDG DLRNTKHEIS EMNRMIQRLR AEIDNVKKQC ANLQNAIADA EQRGELALKD ARNKLAEELE  
ALQKAKQDMA RLLREYQELM NTKLALDVEI ATYRKLEGE ECRLSGEGVG PVNISVVTSS VSSGYGSGSG YGGGLGGGLG  
GGLGGLAGG GSGSYSSSS GGVGLSGGLS VGGSGFSASS GRGLGVGFGS GGGSSSVKF VSTTSSSRKS FKS

## General References

Nishizawa M., et al. (2005) Cell Sci. 118:1081-1090..

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.