

Recombinant Human KRT5, His-tagged

Cat. No. KRT5-147H Lot. No. (See product label)

SPECIFICATION

Product Overview	KRT5, 1-590aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-590aa
Description	<p>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</p>
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	64.8 kDa (613 aa)
AA Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSMSRQSSV SFRSGGSRSF STASAITPSV SRTSFTSVSR SGGGGGGGFG RVSLAGACGV GYGSRSLYN LGGSKRISIS TSGGSFRNRF GAGAGGGYGF GGGAGSGFGF GGGAGGGFGL GGGAGFGGGF GGPGFPVCPG GGIQEVTVNQ SLLTPLNLQI DPSIQRVRTE EREQIKTLNN KFASFIDKVR FLEQQNKVLD TKWTLLQEQG TKTVRQNLEP LFEQYINNLR</p>

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RQLDSIVGER GRLDSELRNM QDLVEDFKNK YEDEINKRTT AENEFVMLKK
 DVDAAYMKNV ELEAKVDALM DEINFMKMF DAELSQQMTH VSDTSSVLSM
 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

Purity >85 % by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [KRT5 keratin 5 \[Homo sapiens \]](#)

Official Symbol KRT5

Synonyms KRT5; keratin 5; EBS2, epidermolysis bullosa simplex 2 Dowling Meara/Kobner/Weber Cockayne types , keratin 5 (epidermolysis bullosa simplex, Dowling Meara/Kobner/Weber Cockayne types); keratin, type II cytoskeletal 5; KRT5A; CK-5; cytokeratin-5; 58 kda cytokeratin; type-II keratin Kb5; epidermolysis bullosa simplex 2 Dowling-Meara/Kobner/Weber-Cockayne types; keratin 5 (epidermolysis bullosa simplex, Dowling-Meara/Kobner/Weber-Cockayne types); K5; CK5; DDD; EBS2;

Gene ID [3852](#)

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mRNA Refseq	NM_000424
Protein Refseq	NP_000415
MIM	148040
UniProt ID	P13647
Chromosome Location	12q13.13
Pathway	Glucocorticoid receptor regulatory network, organism-specific biosystem;
Function	protein binding; structural constituent of cytoskeleton;

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