# Recombinant Bovine KRT17 Protein (1-441 aa), His-SUMO-tagged

**Cat. No.** KRT17-611B **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Bovine KRT17 Protein (1-441 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Signal Transduction. Protein Description: Full Length. |
| **Species** | Bovine |
| **Source** | E.coli |
| **ProteinLength** | 1-441 aa |
| **Description** | Type I keratin involved in the formation and maintenance of various skin appendages, specifically in determining shape and orientation of hair. Required for the correct growth of hair follicles, in particular for the persistence of the anagen (growth) state. Modulates the function of TNF-alpha in the specific context of hair cycling. Regulates protein synthesis and epithelial cell growth through binding to the adapter protein SFN and by stimulating Akt/mTOR pathway. Involved in tissue repair. May be a marker of basal cell differentiation in complex epithelia and therefore indicative of a certain type of epithelial "st cells". Acts as a promoter of epithelial proliferation by acting a regulator of immune response in skin: promotes Th1/Th17-dominated immune environment contributing to the development of basaloid skin tumors. May act as an autoantigen in the immunopathogenesis of psoriasis, with certain peptide regions being a major target for autoreactive T-cells and hence causing their proliferation. |

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| **Form** | Tris-based buffer, 50% glycerol |
| **Molecular Mass** | 64.7 kDa |
| **AA Sequence** | MTTTIRHFSSGSIKGSSGLAGGSSRSCRVSGSLGGGSCRLGSAGGLGSGLGGSSY SSCYSFGSGGGYGSGGYVSGGYGGGFGGVDGLLVGGEKATMQNLNDRLASYLDK VRALEEANTELELKIRDWYQKQAPGPAPDYSSYFKTIEDLRNKIHTATVDNANLLLQI DNARLAADDFRTKFETEQALRVSVEADINGLRRVLDELTLARADLEMQIENLKEELAY LRKNHEEEMKALRGQVGGEINVEMDAAPGVDLSRILNEMRDQYEKMAEKNRKDAE DWFFSKTEELNREVATNSELVQSGKSEISELRRTLQALEIELQSQLSMKASLEGSLA ETENRYCMQLSQIQGLIGSVEEQLAQLRCEMEQQNQEYKILLDVKTRLEQEIATYRR LLEGEDAHLTQYKTKEPVTTRQVRTIVEEVQDGRVISSREQVHQTSH |
| **Purity** | > 90% as determined by SDS-PAGE. |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week. |
| **Storage** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| **Concentration** | A hardcopy of COA with concentration instruction is sent along with the products. |

## GENE INFORMATION

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| **Gene Name** | KRT17 keratin 17 [ Bos taurus (cattle) ] |
| **Official Symbol** | KRT17 |

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| **Gene ID** | 281889 |
| **mRNA Refseq** | NM_001105322 |
| **Protein Refseq** | NP_001098792 |
| **UniProt ID** | A1L595 |

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