

Recombinant Bovine Keratin, Type I Cytoskeletal 17 (KRT17), N-His-SUMO

Cat. No.: AP9C296

Product Type: Animal Proteins

Size: 20 µg; 100 µg; 1 mg

Product Overview

BioVenic's Recombinant Bovine Keratin, Type I Cytoskeletal 17 (KRT17), N-His-SUMO is a recombinant protein expressed from *E. coli*. Its predicted molecular weight is 64.7 kDa. The purity is >90% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Bovine
Expression System	<i>E. coli</i>
Purity	>90% (SDS-PAGE)
Predicted Molecular Weight	64.7 kDa
Physical State	Lyophilized
Formulation	The buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.

Target Information

Bovine keratin, type I cytoskeletal 17 (KRT17) is a member of the keratin family of proteins, which are the major structural components of the cytoskeleton in epithelial cells. In cattle, KRT17 is specifically expressed in the basal layer of the epidermis and plays a role in maintaining the integrity of the skin. It is involved in the formation and maintenance of various skin appendages, particularly in determining the shape and orientation of hair. KRT17 is also required for the correct growth of hair follicles and for sustaining the anagen (growth) state. Additionally, it modulates the function of TNF-alpha in the context of hair cycling and is implicated in tissue repair. The protein may serve as a marker of basal cell differentiation in the skin and could be involved in regulating protein synthesis and epithelial cell growth.

Protein	Bovine Keratin, Type I Cytoskeletal 17 (KRT17)
Protein Synonym	KRT17; Keratin; type I cytoskeletal 17; Cytokeratin-17; CK-17; Keratin-17; K17
Gene ID	531981
UniProt ID	531981

Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquot as needed and store at -80°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -80°C for 12 months. Avoid repeated freezing and thawing.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimise freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.