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**Product Data Sheet**


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Product Name: KRT17 Human  
 Cat. No.: GP23772  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Keratin 17; PCHC1; 39.1; CK-17; K17; PC2; PC; cytokeratin-17; Keratin 17 Epitope S1; Keratin 17 Epitope S2; Keratin 17 Epitope S4; Keratin; Type I Cytoskeletal 1; keratin-17; Cytokeratin-17; Keratin-17.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMTTSIRQ FTSSSSIKGS SGLGGGSSRT SCRLSGLGA GSCRLGSAGGLGSTLGGSSY SSCYSFGSGG GYGSSFGGVD GLLAGGEKAT MQNLNDRLAS YLDKVRAL EE ANTELEV KIRDWYQRQAPGP ARDYSQYYRT IEELQNKILT ATVDNANILL QIDNARLAAD DFRTKFETE Q ALRLSVEADINGLRRVLEDEL TLARADLEMQ IENLKEELAY LKKNHEEEMN ALRGQVGGEI NVEMDAAPGV DLSRILNEMRDQYEKMAEKN RKDAEDWFFS KTEELNREVA TNSLVQSGK SEISELRRTM QALEIELQSQ LSMKASLEGNLAETENRYCV QLSQIQGLIG SVEEQLAQLR CEMEQQNQEY KILLDVKTRL EQEIATYRRL LEGEDAHLTQYKKEPVTTRQ VRTIVEEVQD GKVISSREQV HQTTR		
Formulation	KRT17 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.4M Urea.		

**Introduction**

Cytokeratin17 also known as KRT17 is a type I cytokeratin. KRT17 is found in nail beds, hair follicles, sebaceous glands, and other epidermal appendages. Mutations in KRT17 lead to Jackson-Lawler type pachyonychia congenita and steatocystoma multiplex. KRT17 takes part in the formation and maintenance of a variety of skin appendages, particularly in determining shape and orientation of hair. KRT17 also modulates the function of TNF- $\alpha$  in the precise context of hair cycling. Moreover, KRT17 regulates protein synthesis and epithelial cell growth through binding to the adapter protein SFN and by stimulating Akt/mTOR pathway.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Stability

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.

### Background

KRT17 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 455 amino acids (1-432 a.a) and having a molecular mass of 50.5kDa. KRT17 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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