

KRT16, 1-473aa Human, His tag, E.coli

Cat.NO.: TP02765

3th Edition

Synonyms:Keratin, type I cytoskeletal 16, CK16, FNEPPK, K16, K1CP, KRT16A, NEPPK

Description:KRT16 is a member of the keratin gene family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. Most of the type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains and are clustered in a region of chromosome 17q12-q21. This keratin has been coexpressed with keratin 14 in a number of epithelial tissues, including esophagus, tongue, and hair follicles. Mutations in this gene are associated with type 1 pachyonychia congenita, non-epidermolytic palmoplantar keratoderma and unilateral palmoplantar verrucous nevus. Recombinant human KRT16 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Molecular Weight:53.7 kDa (496aa)

Sequences:

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MGSSHHHHHSSGLVPRGSHMGSM T TCSRQFTSSSSMKGSCGIGGGIGGGSSRISSVLAGGSCRAPSTYGGGLS  
VSSRFSSGGACGLGGGYGGGFSSSSSFGSGFGGGYGGGLGAGFGGGLGAGFGGGFAGGDGLLVGSEKVTMQN  
LNDRLASYLDKVRAL E E A N A D L E V K I R D W Y Q R Q R P S E I K D Y S P Y F K T I E D L R N K I I A A T I E N A Q P I L Q I D N A R L A A D D F  
R T K Y E H E L A L R Q T V E A D V N G L R R V L D E L T L A R T D L E M Q I E G L K E E L A Y L R K N H E E E M L A L R G Q T G G D V N V E M D A A P  
G V D L S R I L N E M R D Q Y E Q M A E K N R R D A E T W F L S K T E E L N K E V A S N S E L V Q S S R S E V T E L R R V L Q G L E I E L Q S Q L S M K  
A S L E N S L E E T K G R Y C M Q L S Q I Q G L I G S V E E Q L A Q L R C E M E Q Q S Q E Y Q I L L D V K T R L E Q E I A T Y R R L L E G E D A H L S S Q  
Q A S G Q S Y S S R E V F T S S S S S S R Q T R P I L K E Q S S S S F S Q G Q S S
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Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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