

Recombinant Human keratin 16, His-tagged

Cat. No. KRT16-502H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	KRT16, 1-473aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-473 a.a.
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 Mass	53.7 kDa (496aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMTTC SRQ FTSSSSMKGS CGIGGGIGGG SSRISSVLG GSCRAPSTYG GGLSVSSRFS SGGACGLGGG YGGGFSSSSS

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FGSGFGGGYG GGLGAGFGGG LGAGFGGGFA GGDGLLVGSE KVTMQNLNDR
 LASYLDKVR A LEEANADLEV KIRDWYQRQR PSEIKDYS PY FKTIEDLRNK
 IIAATIENAQ PILQIDNARL AADDFRTKYE HELALRQTVE ADVNGLRRVL
 DELTLARTDL EMQIEGLKEE LAYLRKNHEE EMLALRGQTG GDVNVEMDAA
 PGVDLSRILN EMRDQYEQMA EKNRRDAETW FLSKTEELNK EVASNSELVQ
 SSRSEVTELR RVLQGLEIEL QSQLSMKASL ENSLEETKGR YCMQLS QIQG
 LIGSVEEQLA QLRCEMEQQS QEYQILLDVK TRLEQEIATY RRLLEGEDAH
 LSSQQASGQS YSSREVFTSS SSSSRQTRP ILKEQSSSSF SQGQSS

Purity >90% 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 KRT16 keratin 16 [Homo sapiens]

Official Symbol KRT16

Synonyms KRT16; keratin 16; keratin, type I cytoskeletal 16; CK-16; keratin-16; cytokeratin 16; cytokeratin-16; focal non-epidermolytic palmoplantar keratoderma; K16; CK16; K1CP; NEPPK; FNEPPK; KRT16A;

Gene ID 3868

mRNA Refseq NM_005557

Protein Refseq NP_005548

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Function

protein binding; structural constituent of cytoskeleton;

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