

Recombinant Human Keratin 14, His-tagged

Cat. No. KRT14-467H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KRT14 protein, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography. MW: 53.8 kDa.
Species	Human
Source	<i>E. coli</i>
ProteinLength	1-472aa
Description	KRT14 is a member of the cytokeratin subfamily of intermediate filament proteins (IFPs). It is unique in that it is normally expressed in the basal cells of complex epithelia but not in stratified or simple epithelia. It functions to regulate cell growth and size through its interactions with the adaptor protein 14-3-3 sigma to mediate protein synthesis.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea.
Molecular Mass	53.8 kDa (492aa)
AA Sequence	<p>MGSSHHHHHH SGLVPRGSH MTTCSRQFTS SSSMKGSCGI GGGIGGGSSR ISSVLAGGSC RAPSTYGGGL SVSSSRFSSG GAYGLGGGYG GGFSSSSSSF GSGFGGGYGG GLGTGLGGGF GGFAGGDGL LVGSEKVTMQ NLNDRLASYL DKVRALEEAN ADLEVKIRDW YQRQRP AEIK DYSPYFKTIE DLRNKILTAT VDNANVLLQI DNARLAADD F RTKYETELNL RMSVEADING LRRVLDLTL ARADLEMQIE SLKEELAYLK KNHEEEMNAL RGQVGGDVNV EMDAAPGVDL</p>

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SRILNEMRDQ YEKMAEKNRK DAEWFFTKT EELNREVATN SELVQSGKSE
 ISELRRMQN LEIELQSQLS MKASLENSLE ETKGRYCMQL AQIQEMIGSV
 EEQLAQLRCE MEQQNQEYKI LLDVKTRLEQ EIATYRRLE GEDAHLSSSQ
 FSSGSQSSRD VTSSSRQIRT KVMDVHDGKV VSTHEQVLRT KN

Purity >90% by SDS - PAGE

Applications SDS-PAGE

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.

Concentration 1.0 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [KRT14 keratin 14 \[Homo sapiens \]](#)

Official Symbol KRT14

Synonyms KRT14; keratin 14; EBS3, EBS4, keratin 14 (epidermolysis bullosa simplex, Dowling Meara, Koebner); keratin, type I cytoskeletal 14; epidermolysis bullosa simplex; Dowling Meara; Koebner; CK-14; keratin-14; cytokeratin 14; cytokeratin-14; keratin 14 (epidermolysis bullosa simplex, Dowling-Meara, Koebner); K14; NFJ; CK14; EBS3; EBS4;

Gene ID [3861](#)

mRNA Refseq [NM_000526](#)

Protein Refseq [NP_000517](#)

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MIM	148066
UniProt ID	P02533
Chromosome Location	17q12-q21
Pathway	Glucocorticoid receptor regulatory network, organism-specific biosystem;
Function	protein binding; structural constituent of cytoskeleton;

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