

## Recombinant Human KRT81 protein, His-tagged

Cat. No. KRT81-1508H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human KRT81 aa. (Gln142~Thr257 (Accession # Q14533)) fused with N-terminal His tag was produced in E. coli cells.

**Species** Human

**Source** E.coli

**ProteinLength** Gln142~Thr257

**Description** The protein encoded by this gene is a member of the keratin gene family. As a type II hair keratin, it is a basic protein which heterodimerizes with type I keratins to form hair and nails. The type II hair keratins are clustered in a region of chromosome 12q13 and are grouped into two distinct subfamilies based on structure similarity. One subfamily, consisting of KRTHB1, KRTHB3, and KRTHB6, is highly related. The other less-related subfamily includes KRTHB2, KRTHB4, and KRTHB5. All hair keratins are expressed in the hair follicle; this hair keratin, as well as KRTHB3 and KRTHB6, is found primarily in the hair cortex. Mutations in this gene and KRTHB6 have been observed in patients with a rare dominant hair disease, monilethrix.

**Form** Freeze-dried powder

**Molecular Mass** 15kDa as determined by SDS-PAGE reducing conditions.

**Endotoxin** <1.0EU per 1ug (determined by the LAL method)

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<b>Purity</b>	>95%
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage buffer</b>	Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.
<b>Reconstitution</b>	Reconstitute in sterile PBS, pH7.2-pH7.4.
<b>Isoelectric Point</b>	4.9

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">KRT81 keratin 81 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	<a href="#">KRT81</a>
<b>Synonyms</b>	KRT81; keratin 81; HB1; Hb-1; KRTHB1; MLN137; ghHkb1; hHAKB2-1; keratin, type II cuticular Hb1; K81; MLN 137; ghHb1; hair keratin K2.9; hard keratin, type II, 1; keratin 81, type II; keratin, hair, basic, 1; metastatic lymph node 137 gene protein; type II hair keratin Hb1; type-II keratin Kb21
<b>Gene ID</b>	<a href="#">3887</a>

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mRNA Refseq [NM\\_002281.3](#)

Protein Refseq [NP\\_002272.2](#)

UniProt ID [Q14533](#)

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