

Recombinant Human KRT2 Protein (Cys7-Leu160), His tagged

Cat. No. KRT2-2413H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KRT2 (Cys7-Leu160) protein fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Cys7-Leu160
Description	The mRNA and protein expression of KRT2 was highly expressed in brown skin in comparison with that in white skin. After transfection with KRT2 in alpaca melanocytes, the relative mRNA and protein expression of KRT2, microphthalmia-associated transcription factor (MITF), tyrosinase (TYR) and tyrosinase-related protein 1 (TYRP1) in alpaca skin melanocytes was increased with significant differences; a further result was the increase of melanin production. KRT2 functions in alpaca hair color formation, which offered an essential theoretical basis for further exploration of the role of melanogenesis.
Molecular Mass	15.42 kDa
Purity	>90 % as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8

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centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.

Storage Buffer Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.

Reconstitution Reconstitute in sterile water for a stock solution.

Shipping In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name KRT2 keratin 2 [Homo sapiens (human)]

Official Symbol KRT2

Synonyms KRT2; keratin 2; keratin 2A (epidermal ichthyosis bullosa of Siemens), KRT2A; keratin, type II cytoskeletal 2 epidermal; epidermal ichthyosis bullosa of Siemens; KRTE; keratin-2e; cytokeratin-2e; keratin-2 epidermis; type-II keratin Kb2; epithelial keratin-2e; K2e; CK-2e; KRT2A; KRT2E; MGC116967; MGC116968;

Gene ID 3849

mRNA Refseq NM_000423

Protein Refseq NP_000414

MIM 600194

UniProt ID P35908

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