

# Recombinant Human KLF4 Protein, 13-residue TAT-tagged

**Cat. No.** KLF4-145H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human KLF4 fused with 13-residue TAT tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | This gene encodes a protein that belongs to the Kruppel family of transcription factors. The encoded zinc finger protein is required for normal development of the barrier function of skin. The encoded protein is thought to control the G1-to-S transition of the cell cycle following DNA damage by mediating the tumor suppressor gene p53. Mice lacking this gene have a normal appearance but lose weight rapidly, and die shortly after birth due to fluid evaporation resulting from compromised epidermal barrier function. Alternative splicing results in multiple transcript variants encoding different isoforms. |
| <b>Form</b>             | Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 51.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MAVSDALLPSFSTFASGPAGREKTLRQAGAPNNRWREELSHMKRLPPVLPGRPYD<br>LAAATVATDLESGGAGAACGGSNLAPLPRRETEEFNDLLDLDFILSNLTHPPESVA<br>ATVSSSASASSSSSPSSSGPASAPSTCSFTYPIRAGNDPGVAPGGTGGGLLYGRES<br>APPPTAPFNLADINDVSPSGGFVAELLRPELDPVYIPPQQPQPPGGGLMGKFVLKAS<br>LSAPGSEYGSPSVISVSKGSPDGSHPVVAPYNGGPPRTCPKIKQEAVSSCTHLGA                                                                                                                                                                                                                                                                                                                         |

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GPPLSNGHRPAAHDFPLGRQLPSRTTPTLGLLEEVSSRDCHPALPLPPGFHHPGPG  
 NYPSPFLPDQMOPQVPPLHYQELMPPGSCMPEEPKPKRGRRSWPRKRTATHTCDY  
 AGCGKTYTKSSHLKAHLRTHHTGEKPYHCDWDGCGWKFARSDELTRHYRKHTGHR  
 PFQCQKCDRAFSRSDHLALHMKRHFEGGYGRKKRRQRRR

**Endotoxin** Endotoxin level is <0.1 ng/g of protein (<1EU/g).

**Purity** >90% as determined by SDS-PAGE and Coomassie blue staining

**Concentration** Resuspend the protein in the desired concentration in proper buffer

## GENE INFORMATION

**Gene Name** [KLF4 Kruppel-like factor 4 \(gut\) \[ Homo sapiens \]](#)

**Official Symbol** [KLF4](#)

**Synonyms** KLF4; Kruppel-like factor 4 (gut); Krueppel-like factor 4; EZF; GKLF; gut-enriched krueppel-like factor; epithelial zinc finger protein EZF; endothelial Kruppel-like zinc finger protein;

**Gene ID** [9314](#)

**mRNA Refseq** [NM\\_004235](#)

**Protein Refseq** [NP\\_004226](#)

**MIM** [602253](#)

**UniProt ID** [O43474](#)

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