

Recombinant Human KLF4 Protein, 13-residue TAT-tagged

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

SPECIFICATION

Product Overview	Recombinant Human KLF4 fused with 13-residue TAT tag was expressed in HEK293.
Species	Human
Source	HEK293
Description	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.
Form	Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Molecular Mass	51.7 kDa
AA Sequence	MAVSDALLPSFSTFASGPAGREKTLRQAGAPNNRWREELSHMKRLPPVLPGRPYD LAAATVATDLESGGAGAACGGSNLAPLPRRETEEFNDLLDLDFILSNLTHPPESVA ATVSSSASASSSSSPSSSGPASAPSTCSFTYPIRAGNDPGVAPGGTGGGLLYGRES APPPTAPFNLADINDVSPSGGFVAELLRPELDPVYIPPQQPQPPGGGLMGKFVLKAS LSAPGSEYGSPSVISVSKGSPDGSHPVVAPYNGGPPRTCPKIKQEAVSSCTHLGA

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GPPLSNGHRPAAHDFPLGRQLPSRTTPTLGLLEVLSSRDCHPALPLPPGFHHPGPG
 NYPSFLPDQMOPQVPPLHYQELMPPGSCMPEEPKPKRGRRSWPRKRTATHTCDY
 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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