Active Recombinant Full Length Human KLF4 Protein, C-Flag-tagged

Cat. No. KLF4-271HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human KLF4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	EMSA assay
Molecular Mass	49.9 kDa
AA Sequence	MAVSDALLPSFSTFASGPAGREKTLRQAGAPNNRWREELSHMKRLPPVLPGRPYD LAAATVATDLESGGA GAACGGSNLAPLPRRETEEFNDLLDLDFILSNSLTHPPESVA

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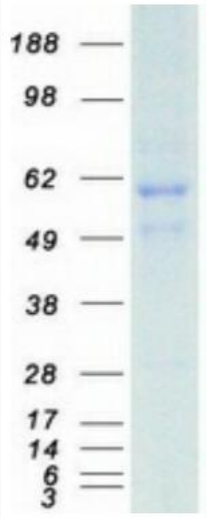
	ATVSSSASASSSSSPSSSGPASAPSTCS FTYPIRAGNDPGVAPGGTGGGLLYGRES APPPTAPFNLADINDVSPSGGFVAELLRPELDPVYIPPQQPQ PPGGGLMGKFVLKA SLSAPGSEYGSPSVISVSKGSPDGSHPVVVAPYNGGPPRTCPKIKQEAVSSCTHLG AGPPLSNGHRPAAHDFPLGRQLPSRTTPTLGLEEVLSSRDCHPALPLPPGFHPHPG PNYPSFLPDQMQPQ VPPLHYQELMPPGSCMPEEPKPKRGRRSWPRKRTATHTCD YAGCGKTYTKSSHLKAHLRTHTGEKPYHCD WDGCGWKFARSDELTRHYRKHTGHRPFQCQKCDRAFSRSDHLALHMKRHFTRTR PLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Adult stem cells, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors
Full Length	Full L.

GENE INFORMATION

Gene Name	KLF4 KLF transcription factor 4 [Homo sapiens (human)]
Official Symbol	KLF4

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Synonyms	EZF; GKLF
Gene ID	9314
mRNA Refseq	NM_004235.6
Protein Refseq	NP_004226.3
MIM	602253
UniProt ID	O43474



Coomassie blue staining of purified KLF4 protein.

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