

Active Recombinant Human KLF4 protein

Cat. No. KLF4-72H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KLF4 cDNA (479 aa) fused with flexible linker domain & eleven arginine (11R Tag) as membrane penetration domain at the C terminus was expressed in E. coli.
Species	Human
Source	E.coli
Form	0.5 mg/ml in sterile-filtered solution in 20 mM Tris, pH 7.5. Proprietary formulation of NaCl , KCl, EDTA, arginine, DTT, and glycerol.
Bio-activity	Cellular Toxicity: This recombinant protein was tested on mouse embryonic stem cells up to 50 µg/ml in culture medium. Suggested reprogramming protein concentration is between 0.5 to 8 µg / ml for both human and mouse fibroblast cells applications. Biolog
AA Sequence	MRQPPGESDMAVSDALLPSFSTFASGPAGREKTLRQAGAPNNRWREELSHMKRLP PVLPGRPYDLAAATVATDLE SGGAGAACGGSNLAPLPRRETEEFNDLLDLDFILSNS LTHPPESVAATVSSSASASSSSSPSSSGPASAPSTCSF TYPIRAGNDPGVAPGGTG GGLLYGRESAPPPTAPFNLADINDVSPSGGFVAELLRPELDPVYIPPQQPQPPGGGL MGKFVLKASLSAPGSEYGSPSVISVSKGSPDGSHPVVVAPYNGGPPRTCPKIKQEA VSSCTHLGAGPPLSNGHRP AAHDFPLGRQLPSRTTPTLGLLEEVLSRDCHPALPLP PGFHHPGPNYPSFLPDQMOPQVPPLHYQELMPPGSCM PEEP KPKRGRRSWPR KRTATHTCDYAGCGKTYTKSSHLKAHLRHTTGEKPYHCDWDGCGWKFARSDELTR

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	HYRKH TGHRPFQCQKCDRAFSRSDHLALHMKRHFESGGGGSPGRRRRRRRRRRR R
Purity	>70% by SDS-PAGE
Applications	1. May be used for in vitro human Klf4 mediated iPS generation mechanism, or its gene specific transcription regulation study with intracellular delivery of this protein.2. May be used as specific substrate protein for kinase and ubiquitin (Sumo pathway) related enzyme functional screening assays.3. May be used for Klf4 protein-protein interaction mapping.4. May be used for specific antibody production.
Storage	Recombinant Human Klf4-11R is stable for six months at -20centigrade to -80centigrade. Store thawed tube at 4centigrade for seven days. Multiple freeze/thaw cycles may result in significant loss of activity.

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

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MIM	602253
UniProt ID	O43474
Chromosome Location	9q31
Pathway	Developmental Biology, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Regulation of Wnt-mediated beta catenin signaling and target gene transcription, organism-specific biosystem; Synthesis, Secretion, and Deacylation of Ghrelin, organism-specific biosystem
Function	DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; RNA polymerase II transcription factor binding; RNA polymerase II transcription fact

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