Recombinant Human KLF4, His-tagged

Cat. No. KLF4-8466H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KLF4, fused with His tag, was expressed in E. coli and purified by affinity chromatography in combination with FPLC columns.
Species	Human
Source	E.coli
Description	In embryonic stem cells (ESCs). KLF4 has been demonstrated to be a good indicator of stem-like capacity. As a transcription factor. it can act both as activator and as repressor. KLF4 binds the 5"-CACCC-3" core sequence and regulates the expression of key transcription factors during embryonic development. It plays an important role in maintaining embryonic stem cells. and in preventing their differentiation. KLF4 also contributes to the down-regulation of p53/TP53 transcription.
Form	20 mM Tris-Cl, pH 7.9, 20% Glycerol. 100 mM KCl. 1 mM DTT and 0.2 mM EDTA
Molecular Mass	51.1 kDa
Endotoxin	Less than 1.0 EU/μg by LAL method
Purity	>95% as determined by SDS-PAGE
Storage	-80 °C
Shipping	Dry Ice

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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
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; Transcriptional Regulation of White Adipocyte Differentiation, organism-specific biosystem;
Function	DNA binding; RNA polymerase II core promoter proximal region sequence-specific

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DNA binding transcription factor activity involved in positive regulation of transcription; RNA polymerase II transcription factor binding; RNA polymerase II transcription factor binding; RNA polymerase II transcription factor binding; RNA polymerase II transcription factor binding transcription factor activity involved in positive regulation of transcription; core promoter proximal region sequence-specific DNA binding; double-stranded DNA binding; metal ion binding; phosphatidylinositol 3-kinase regulator activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor recruiting transcription factor activity; sequence-specific DNA binding transcription factor recruiting transcription factor activity; transcription regulatory region DNA binding; transcription regulatory region DNA binding; zinc ion binding;

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