

Recombinant Human KLF4, His CaM-tagged

Cat. No. KLF4-3567H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KLF4 protein, fused to His-CaM-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (11-395aa).
Species	Human
Source	E.coli
ProteinLength	11-395 a.a.
Description	KLF4 is a transcription factor which acts as both an activator and repressor. This protein is expressed principally in erythroid tissues and found predominantly in gut. KLF4 is involved in the differentiation of epithelial cells and may also function in skeletal and kidney development.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl.
Molecular Mass	58.1 kDa (545aa)
Purity	> 80 % by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Sequences of amino	MAHHHHHHMA DQLTEEQIAE FKEAFSLFDK DGDGTITTKE LGTVMRSLGQ

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acids

NPTEAELQDM INEVDADGNG TIDFPEFLTM MARKMKDTDS EEEIREAFRV
 FDKDNGYIS AAELRHVMTN LGEKLTDEEV DEMIREADID GDGQVNYEEF
 VQMMTAKGSM AVSDALLPSF STFASGPAGR EKTLRQAGAP NNRWREELSH
 MKRLPPVLPG RPYDLAAATV ATDLESGGAG AACGGSNLAP LPRRETEEFN
 DLLDLDFILS NSLTHPPESV AATVSSSASA SSSSSPSSSG PASAPSTCSF
 TYPIRAGNDP GVAPGGTGGG LLYGRESAPP PTAPFNLADI NDVSPSGGFV
 AELLRPELDP VYIPPQQPQP PGGGLMGKFV LKASLSAPGS EYGSPSVISV
 SKGSPDGSHV VVAPYNGGP PRTCPKIQE AVSSCTHLGA GPPLSNGHRP
 AAHDFPLGRQ LPSRTTPTLG LEEVLSSRDC HPALPLPPGF HPHPGPNYPS
 FLPDQMOPV PPLHYQELMP PGSCMPEEPK PKRGRRSWPR KRTAT

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

KLF4 Kruppel-like factor 4 (gut) [Homo sapiens]

Official Symbol

KLF4

Synonyms

KLF4; Kruppel-like factor 4 (gut); EZF; GKLF; Epithelial zinc finger protein EZF; Gut-enriched krueppel-like factor; endothelial Kruppel-like zinc finger protein; Krueppel-like factor 4

Gene ID

9314

mRNA Refseq

NM_004235

Protein Refseq

NP_004226

MIM

602253

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UniProt ID	O43474
Chromosome Location	9q31
Function	DNA binding; RNA polymerase II transcription factor binding; metal ion binding; promoter binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor recruiting transcription factor activity; transcription activator activity; transcription activator activity; transcription repressor activity; zinc ion binding

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