

# Recombinant human KLF4 protein

Catalog Number: ATGP1145

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

11-395aa

### UniProt No.

O43474

### NCBI Accession No.

NP\_004226

### Alternative Names

Kruppel-like factor 4, EZF, GKLF

## PRODUCT SPECIFICATION

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### Molecular Weight

58.1 kDa (545aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl.

### Purity

> 80% by SDS-PAGE

### Tag

His-Cam Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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. Recombinant human KLF4 protein, fused to His-CaM-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

MAHHHHHHMA DQLTEEQIAE FKEAFSLFDK DGDGTITKE LGTVMRSLGQ NPTEAELQDM INEVDADGNG TIDFPEFLTM

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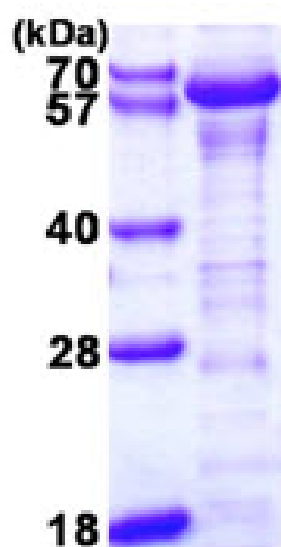
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AVSDALLPSF STFASGPAGR EKTLRQAGAP NNRWREELSH MKRLPPVLPG RPYDLAAATV ATDLESGGAG AACGGSNLAP  
LPRRETEEFN DLLDLDFILS NSLTHPPESV AATVSSSASA SSSSSPSSSG PASAPSTCSF TYPIRAGNDP GVAPGGTGGG  
LLYGRESAPP PTAPFNLADI NDVSPSGGFV AELLRPELDP VYIPPQQQPQ PGGGLMGKFV LKASLSAPGS EYGSPSVISV  
SKGSPDGSHP VVVAPYNGGP PRTCPIKQE AVSSCTHLGA GPPLSNGHRP AAHDFPLGRQ LPSRTTPTLG LEEVLSSRDC  
HPALPLPPGF HPHGPNYPS FLPDQMOPQV PPLHYQELMP PGSCMPEEPK PKRGRRSWPR KRTAT

## General References

Deborah E., et al. (2000) *Nucleic Acids Res.* 28(5):1106-1113.  
Janiel M., et al. (1996) *J Biol Chem.* 271(33):20009-20017.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)