

# Recombinant human KLF7 protein

Catalog Number: ATGP2174

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-302aa

### UniProt No.

O75840

### NCBI Accession No.

NP\_003700

### Alternative Names

Kruppel-like factor 7, uKLF

## PRODUCT SPECIFICATION

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### Molecular Weight

35.8 kDa (325aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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

KLF7 is a member of the Kruppel-like transcriptional regulator family. Members in this family regulate cell proliferation, differentiation and survival and contain three C2H2 zinc fingers at the C-terminus that mediate binding to GC-rich sites. This protein may contribute to the progression of type 2 diabetes by inhibiting insulin expression and secretion in pancreatic beta-cells and by deregulating adipocytokine secretion in adipocytes. A pseudogene of this gene is located on the long arm of chromosome 3. Alternative splicing results in multiple transcript variants. Recombinant human KLF7 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH MGS>MDVLASY SIFQELQLVH DTGYFSALPS LEETWQQTCL ELERYLQTEP  
RRISETFGE LDCFLHASPP PCIEESFRRL DPLLLPVEAA ICEKSSAVDI LLSRDKLLSE TCLSLQPASS SLDSYTAVNQ  
AQLNAVTSLT PPSSPELSRH LVKTSQTLA VDGTVTLKLV AKKAALSSVK VGGVATAAAA VTAAGAVKSG QSDSDQGGLG  
AEACPENKKR VHRCQFNGCR KVYTKSSHLK AHQRTHTGEK PYKCSWEGCE WRFARSDEL T RHYRKHTGAK PFKCNHCDCR  
FSRSDHLALH MKRHI

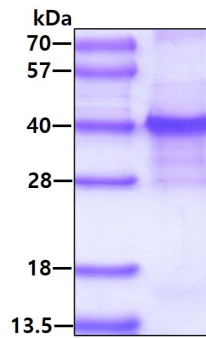
## General References

Matsumoto N., et al. (1998) J. Biol. Chem. 273:28229-28237

Kawamura Y., et al. (2006) Mol. Endocrinol. 20:844-856

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.