

KLF4-TAT Human HEK293 cells

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: HEK293 cells	RBG10199005	(5 µg)
Species: Human	RBG10199025	(25 µg)
Other names: Kruppel-like factor-4, EZF, GKLF	RBG10199100	(100 µg)

Description

KLF4 is a member of the Kruppel-like factor (KLF) family of zinc finger transcription factors. Members of this family share 3 contiguous C2H2-type zinc fingers at the carboxyl terminus that comprise the DNA-binding domain. KLF4 is highly expressed in skin and gut epithelial tissues, but is also found in various other cells and tissues, including vascular endothelial cells, lymphocytes, lung, and testis. It is an important regulator of the cell cycle, transcription, and cell differentiation. Together with Sox2, Oct4, and cMyc, KLF4 can induce the reprogramming of primary human fibroblasts to a pluripotent state. KLF4 and other transcription factors can be introduced into cells by DNA transfection, viral infection, or microinjection. Protein transduction using TAT fusion proteins represents an alternative methodology for introducing transcription factors into primary, as well as transformed, cells. Recombinant Human KLF4-TAT is a 51.7 kDa protein containing 483 amino acid residues, including a 13-residue C-terminal TAT peptide.

Research topic

Others

Amino Acid Sequence

MAVSDALLPS FSTFASGPAG REKTLRQAGA PNNRWREELS HMKRLPPVLP GRPYDLAAAT VATDLESGGA GAACGGSNLA
 PLPRRETEEF NDLLDLDFIL SNSLTHPPES VAATVSSAS ASSSSPSSS GPASAPSTCS FTYPIRAGND PGVAPGGTGG
 GLLYGRESAP PPTAPFNLAD INDVSPSGGF VAELLRPELD PVYIPPQQPQ PPGGGLMGKF VLKASLSAPG SEYGSPSVIS
 VSKGSPDGSH PVVVAPYNGG PPRTCPKIKQ EAVSSCTHLG AGPPLSNGHR PAAHDFPLGR QLPSRTTPTL GLEEVLSRD
 CHPALPLPPG FHPHPGNYP SFLPDQMPPQ VPPLHYQELM PPGSCMPEEP KPKRGRRSWP RKRTATHTCD YAGCGKTYTK
 SSKLKAHLRT HTGEKPYHCD WDCGKWK FAR SDELTRHYRK HTGHRPFQCC KCDRAF SRSD HLAHMKRHF GGYGRKKRRQ RRR

Source

HEK293 cells

Purity

90%

Biological Activity

Data not available.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

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