

# Human CellExp™ KLF4-TAT, Human Recombinant

<b>CATALOG #:</b>	P1011-20            20 µg P1011-100           100 µg
<b>ALTERNATE NAMES:</b>	Krueppel-like factor 4, Epithelial zinc finger protein EZF, Gut-enriched krueppel-like factor, EZF, GKLF
<b>SOURCE:</b>	HEK293 cells
<b>SEQUENCE:</b>	Isoform 2 of Krueppel-like factor 4 with 13-residue C-terminal TAT peptide (GGYGRKKRRQRRR)
<b>MOLECULAR WEIGHT:</b>	51.7 kDa (SDS-PAGE gel shows bands at approximately 72 and 66kDa, under reduced conditions due to post-translational modifications.)
<b>PURITY:</b>	>90% determined by SDS-PAGE and HPLC analyses
<b>FORM:</b>	Lyophilized from 10mM Sodium Phosphate with 150mM NaCl, (pH 7.6). Endotoxin level is < 1 EU/µg
<b>RECONSTITUTION:</b>	Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 0.1-1.0 mg/ml. Do not vortex. Additional carrier protein (example 0.1% BSA) is recommended for long term storage.
<b>STORAGE CONDITIONS:</b>	Lyophilized protein is stable at -80°C for 12 months. Reconstituted proteins can store at 4°C for one week or at -80°C for 3 months. Avoid repeated freezing and thawing cycles.

**DESCRIPTION:** Transcription factor; can act both as activator and as repressor. Binds the 5'-CACCC-3' core sequence. Binds to the promoter region of its own gene and can activate its own transcription. Regulates the expression of key transcription factors during embryonic development. Plays an important role in maintaining embryonic stem cells, and in preventing their differentiation. Required for establishing the barrier function of the skin and for postnatal maturation and maintenance of the ocular surface. Involved in the differentiation of epithelial cells and may also function in skeletal and kidney development. Contributes to the down-regulation of p53/TP53 transcription.

**RELATED PRODUCTS:**

- KLF4 Antibody (**Cat. No. 3089-200**)
- KLF4 Antibody (4G6E11) (**Cat. No. 5300-100**)
- KLF4 Blocking Peptide (**Cat No. 3089BP-50**)
- Sox-2 Antibody (**Cat. No. 3889-100**)
- Myc-Tag Antibody (**Cat. No. 3995-100**)
- Phospho-c-Myc Antibody (**Cat. No. 3501-100**)
- NANOG Antibody (**Cat. No. 3165-100**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**