

TECHNICAL DATA SHEET

Recombinant Human KLF4-TAT (Carrier-Free)

Catalog Number: 21-9060

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

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Recombinant Human KLF4-TAT (Carrier-Free)

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. Recombinant Human KLF4-TAT is a mixture of the expected sequence beginning at Met1 and a truncated isoform beginning at Tyr54. Due to post-translational modifications, SDS-PAGE gel shows bands at approximately 72 and 66kDa, under reduced conditions.

MOLECULAR MASS

Recombinant Human KLF4-TAT is a 483 amino acid protein, including a 13-residue C-terminal TAT peptide, with a calculated molecular weight of 51.7 kDa.

AMINO ACID SEQUENCE

MAVSDALLPS FSTFASGPAG REKTLRQAGA PNNRWREELS HMKRLPPVLP GRPYDLAAAT VATDLESGGA GAACGGSNLA PLPRRETEEF
 NDLLDLDLDFIL SNSLTHPPES VAATVSSAS ASSSSPSS GPASAPSTCS FTYPIRAGND PGVAPGGTGG GLLYGRESAP PPTAPFNLD INDVSPSGGF
 VAELLRPELD PVYIPQPPQ PPGGLMGKF VLKASLSAPG SEYGSPSVIS VSKGSPDGSV PVVVAPYNGG PPRTCPKIKQ EAVSSCTHLG
 AGPPLSNGHR PAAHDFPLGR QLPSRTTPTL GLEEVLSRD CHPALPLPPG FHPHPGPNYP SFLPDQMPPQ VPPLHYQELM PPGSCMPEEP
 KPKRGRSWSW RKRTATHTCD YAGCGKTYK SSKLKAHLRT HTGKPYHCD WDCGKWFAR SDELTRHYRK HTGHRPFQCC KCDRAFSRSD
 HLALHMKRHF GGYGRKKRRQ RRR

SOURCE

HEK293 Cells

APPLICATIONS

Bioassay

PURITY

90 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

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

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

BIOACTIVITY

Data not available at this time.

RESEARCH AREAS

0

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Ba MC, Long H, Cui SZ, Gong YF, Yan ZF, Wu YB, Tu YN. Oncotarget. 2017 Sep 18;8(56):95542-95553. doi: 10.18632/oncotarget.20980. eCollection 2017 Nov 10. Li D, Liu J, Yang X, Zhou C, Guo J, Wu C, Qin Y, Guo L, He J, Yu S, Liu H, Wang X, Wu F, Kuang J, Hutchins AP, Chen J, Pei D. Cell Stem Cell. 2017 Dec 7;21(6):819-833.e6. doi: 10.1016/j.stem.2017.10.012.

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