

Recombinant Human TCF4 protein, His-tagged

Cat. No. TCF4-31H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TCF4, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	TCF4, as known as transcription factor 4 isoform I, is a protein acting as a transcription factor. This protein will bind to the immunoglobulin enhancer mu-E5/kappa-E2 motif. Also, it activates transcription by binding to the E-box (5 - CANNTG-3) found usually on SSTR2-INR, or somatostatin receptor 2 initiator element. This protein is found in the central nervous system, somites, and gonadal ridge during early development. Later in development it will be found in the thyroid, thymus, and kidneys while in adulthood it is found in lymphocytes, muscles, and gastrointestinal system.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	54.9kDa (513aa) 35-100kDa (SDS-PAGE under reducing conditions.)
AA Sequence	MKFKQCRCSD TGLCCLDHEG KAEVYAPSAS TADYNRDSPG YPSSKPATST FPSSFFMQDG HHSSDPWSSS SGMNQPGYAG MLGNSSHIPQ SSSYCSLHPH ERLSYPSSHSS ADINSSLPPM STFHRSGTNH YSTSSCTPPA NGTDSIMANR GSGAAGSSQT GDALGKALAS IYSPDHTNNS FSSNPSTPVG SPPSLSAGTA

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VWSRNGGQAS SSPNYEGLH SLQSRIEDRL ERLDDAIHVL RNHAVGPSTA
 MPPGGHGDMMHG IIGPSHNGAM GGLGSGYGTG LLSANRHSLM VGTHREDGVA
 LRGSHSLLPN QVPVQLPVQ SATSPDLNPP QDPYRGMPPG LQGQSVSSGS
 SEIKSDDEGD
 ENLQDTKSSE DKKLDDDKKD IKSITSNDD EDLTPEQKAE REKERRMANN
 ARERLRVRDI NEAFKELGRM VQLHLKSDKP QTKLLILHQA VAVILSLEQQ
 VRERNLNPKA ACLKRREEEK VSSEPPPLSL AGPHPGMGDA SNHMGQMHHH
 HHH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity > 85% by SDS - PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name [TCF4 transcription factor 4 \[Homo sapiens \]](#)

Official Symbol [TCF4](#)

Synonyms TCF4; transcription factor 4; bHLHb19; E2 2; ITF2; SEF2 1B; SL3-3 enhancer factor 2; E2-2; PTHS; SEF2; ITF-2; SEF-2; TCF-4; SEF2-1; SEF2-1A; SEF2-1B

Gene ID [6925](#)

mRNA Refseq [NM_001083962](#)

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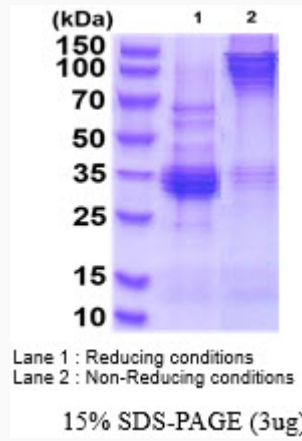
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Protein Refseq	NP_001077431
MIM	602272
UniProt ID	P15884
Chromosome Location	18q21.1
Pathway	CDO in myogenesis, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Myogenesis, organism-specific biosystem; Regulation of Wnt-mediated beta catenin signaling and target gene transcription, organism-specific biosystem; Wnt Signaling Pathway NetPath, organism-specific biosystem;
Function	DNA binding; E-box binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; TFIIB-class binding transcription factor activity; TFIIB-class transcription factor binding; protein C-terminus binding; protein binding; protein heterodimerization activity; protein heterodimerization activity; sequence-specific DNA binding RNA polymerase recruiting transcription factor activity; sequence-specific DNA binding transcription factor activity;

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