

Recombinant Human TCF4, His-tagged

Cat. No. TCF4-5109H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TCF4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
Description	TCF4, also known as immunoglobulin transcription factor 2 and transcription factor 4, is a protein acting as a transcription factor. This protein recognizes an Ephrussi-box ("E-box") binding site ("CANNTG") - a motif first identified in immunoglobulin enhancers. It is expressed predominantly in pre-B-cells, although it is found in other tissues as well.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl
Molecular Mass	56.6 kDa (530aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMKFKQCR CSDTGLCCLD HEGKAEVYAP SASTADYNRD SPGYPPSSKPA TSTFPSSFFM QDGHHSDDPW SSSSGMNQPG YAGMLGNSSH IPQSSSYCSL HPERLSYPS HSSADINSSL PPMSTFHRSG TNHYSTSSCT PPANGTDSIM ANRGSGAAGS SQTGDALGKA LASIYSPDHT NNSFSSNPST PVGSPPSLSA GTAVWSRNGG QASSSPNYEG PLHSLQSRIE DRLERLDDAI HVLNRHAVGP STAMPGGHGD MHGIIGPSHN GAMGGLGSGY GTGLLSANRH SLMVGTHRED GVALRGSHSL LPNQVPVPQL PVQSATSPDL NPPQDPYRGM PPGLQGQSVS SGSSEIKSDD EGDENLQDTK SSEDKKLDDD

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KKDIKSITSN NDDEDLTPEQ KAEREKERRM ANNARERLRV RDINEAFKEL
GRMVQLHLKS DKPQTKLLIL HQAVAVILSL EQQVRERNLN PKAACLRRE
EEKVSSEPPP LSLAGPHPGM GDASNHMGQM

Purity >90% by SDS - PAGE

Applications 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 0.5 mg/ml (determined by Bradford assay)

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; transcription factor 4, isoform D; transcription factor 4, isoform R; immunoglobulin transcription factor 2; class B basic helix-loop-helix protein 19; E2-2; PTHS; SEF2; ITF-2; SEF-2; TCF-4; SEF2-1; SEF2-1A; SEF2-1B; MGC149723; MGC149724;

Gene ID [6925](#)

mRNA Refseq [NM_001083962](#)

Protein Refseq [NP_001077431](#)

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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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