

# Recombinant Human TCF3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TCF3-511H Lot. No. (See product label)

## SPECIFICATION

### Product Overview

TCF3 MS Standard C13 and N15-labeled recombinant protein (NP\_003191) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

### Species

Human

### Source

HEK293

### Description

This gene encodes a member of the E protein (class I) family of helix-loop-helix transcription factors. E proteins activate transcription by binding to regulatory E-box sequences on target genes as heterodimers or homodimers, and are inhibited by heterodimerization with inhibitor of DNA-binding (class IV) helix-loop-helix proteins. E proteins play a critical role in lymphopoiesis, and the encoded protein is required for B and T lymphocyte development. Deletion of this gene or diminished activity of the encoded protein may play a role in lymphoid malignancies. This gene is also involved in several chromosomal translocations that are associated with lymphoid malignancies including pre-B-cell acute lymphoblastic leukemia (t(1;19), with PBX1), childhood leukemia (t(19;19), with TFPT) and acute leukemia (t(12;19), with ZNF384). Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the short arm of chromosome 9.

### Molecular Mass

67.4 kDa

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**AA Sequence**

MNQPQRMAPVGTDKELSDLLDFSMFPLPVTNGKGRPASLAGAQFGGSGLEDRPS  
 SGSWGSGDQSSSSFDPSRTFSEGTHFTESHSSLSSTFLGPGLGGKSGERGAYAS  
 FGRDAGVGGLTQAGFLSGELALNSPGPLSPSGMKGTSQYYPSYSGSSRRRAADGS  
 LDTQPKKVRKVPPGLPSSVYPPSSGEDYGRDATAYPSAKTPSSTYPAPFYVADGSL  
 HPSAELWSPPGQAGFGPMLGGGSSPLPLPPGSGPVGSSGSSSTFGGLHQHERMG  
 YQLHGAEVNGGLPSASSFSSAPGATYGGVSSHTPPVSGADSLGSRGTTAGSSGD  
 ALGKALASIYSPDHSSNNFSSSPSTPVGSPQGLAGTSQWPRAGAPGALSPSYDGGL  
 HGLQSKIEDHLDEAIHVLRSHAVGTAGDMHTLLPGHGALASGFTSPMSLGGRHAGL  
 VGGSHPEDGLAGSTSLMHNHAALPSQPGLPDLRPPDSYGLGRAGATAAASEIK  
 REEKEDEENTSAADHSEEEKELKAPRARTSPDEDEDDLPEQKAEREKERRVAN  
 NARERLRVRDINEAFKELGRMCQLHLNSEKPQTKLLILHQAVSVILNLEQQVRERNL  
 NPKAACLKRREEEKVSGVVGDPQMVLSAPHPGLSEAHNPAGHMTRTRPLEQKLISE  
 EDLAANDILDYKDDDDKV

**Purity**

> 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability**

Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage**

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration**

50 µg/mL as determined by BCA

**Storage Buffer**

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

**GENE INFORMATION**
**Gene Name**

TCF3 transcription factor 3 [ Homo sapiens (human) ]

**Official Symbol**

TCF3

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**Synonyms** TCF3; transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47); transcription factor E2-alpha; bHLHb21; E2A; E2A immunoglobulin enhancer binding factor E12/E47; E47; immunoglobulin transcription factor 1; ITF1; kappa E2 binding factor; MGC129647; MGC129648; transcription factor E2 alpha; VDIR; VDR interacting repressor; kappa-E2-binding factor; transcription factor ITF-1; helix-loop-helix protein HE47; vitamin D receptor-interacting repressor; class B basic helix-loop-helix protein 21; negative vitamin D response element-binding protein; TCF-3;

**Gene ID** [6929](#)

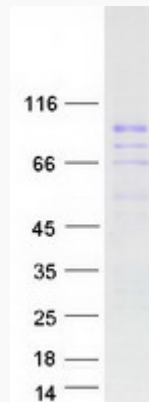
**mRNA Refseq** [NM\\_003200](#)

**Protein Refseq** [NP\\_003191](#)

**MIM** [147141](#)

**UniProt ID** [P15923](#)

**SDS-PAGE**



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