

Recombinant Full Length Human TCF3 Protein, C-Flag-tagged

Cat. No. TCF3-1948HFL Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Full Length Human TCF3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

Species Human

Source Mammalian Cells

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.

Form 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

Molecular Mass 67.1 kDa

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AA Sequence	<p>MNQPQRMAPVGTDKELSDLLDFSMFPLPVTNGKGRPASLAGAQFGGSGLEDRPS SGSWGSGDQSSSSFD PSRTFSEGTHFTESHSSLSSSTFLGPGLGGKSGERGAYAS FGRDAGVGGLTQAGFLSGELALNSPGPLSP SGMKGTSQYYPSYSGSSRRRAADG SLDTQPKKVRKVPPGLPSSVYPPSSGEDYGRDATAYPSAKTPSSTY PAFYVADGS LHPSAELWSPPGQAGFGPMLGGGSSPLPLPPGSGPVGSSGSSSTFGGLHQHERM GYQLHG AEVNGGLPSASSFSSAPGATYGGVSSHTPPVSGADSLGSRGTTAGSSG DALGKALASIYSPDHSSNNFS SSPSTPVGSPQGLAGTSQWPRAGAPGALSPSYDG GLHGLQSKIEDHLDEAIHVLRSHAVGTAGDMHTLLP GHGALASGFTGPMSLGGRHA GLVGGSHPEDGLAGSTSLMHNHAALPSQPGLPDLRPPDSYSGLGRAGA TAAAS EIKREEKEDEENTSAAHSEEEKKELKAPRARTSSTDEVLSLEEKDLRDRERRMAN NARERVRVR DINEAFRELGRMCQMHLKSDKAQTKLLILQQAVQVILGLEQQVRERN LNPKAACLKRREEEKVSGVVGDP QMVL SAPHPGLSEAHNPAGHM TRTRPLEQKLI SEEDLAANDILDYKDDDDKV</p>
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors
Full Length	Full L.

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GENE INFORMATION

Gene Name	TCF3 transcription factor 3 [Homo sapiens (human)]
Official Symbol	TCF3
Synonyms	E2A; E47; p75; AGM8; ITF1; VDIR; AGM8A; AGM8B; TCF-3; bHLHb21
Gene ID	6929
mRNA Refseq	NM_001136139.4
Protein Refseq	NP_001129611.1
MIM	147141
UniProt ID	P15923

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