

Recombinant Full Length Human TCF3 Protein, C-Myc/DDK-tagged

Cat. No. TCF3-28HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TCF3 Protein, fused to Myc/DDK-tag at C-terminus, was expressed in HEK293T.
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.
Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol.

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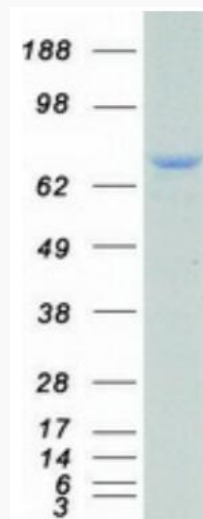
Molecular Mass	67.4 kDa
AA Sequence	MNQPQRMAPVGTDKELSDLLDFSMMFPLPVTNGKGRPASLAGAQFGGSGLED RPS SGSWGSGDQSSSSFD PSRTFSEGTHFTESHSSLSSSTFLGPGLGGKSGERGAYAS FGRDAGVGGLTQAGFLSGELALNSPGPLSP SGMKGTSQYYPSYSGSSRRRAADG SLDTQPKKVRKVPPGLPSSVYPPSSGEDYGRDATAYPSAKTPSSTY PAPFYVADGS LHPSAELWSPPGQAGFGPMLGGGSSPLPLPPGSGPVGSSGSSSTFGGLHQHERM GYQLHG AEVNGGLPSASSFSSAPGATYGGVSSHTPPVSGADSLGSRGTTAGSSG DALGKALASIYSPDHSSNNFS SSPSTPVGSPQGLAGTSQWPRAGAPGALSPSYDG GLHGLQSKIEDHLDEAIHVLRSHAVGTAGDMHTLLP GHGALASGFTSPMSLGGRHA GLVGGSHPEDGLAGSTSLMHNHAALPSQPGTLPDLSRPPDSYSGLGRAGA TAAAS EIKREEKEDEENTSAADHSEEEKELKAPRARTSPDEDEDDLPEQKAEREKERR VANNARERL RVRDINEAFKELGRMCQLHLNSEKPQTKLLILHQA VSVILNLEQQVRE RNLNPKAACLRREEEKVSGVV GDPQMVLSAPHPGLSEAHNPAGHM TRTRPLEQ KLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
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.
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_003200.5
Protein Refseq	NP_003191.1
MIM	147141
UniProt ID	P15923

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SDS-PAGE

Coomassie blue staining of purified TCF3 protein.

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