

Recombinant Human TCF7 Protein, His-tagged

Cat. No. TCF7-119H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TCF7 Protein, fused to His-tag, was expressed in E.coli.
Species	Human
Source	E.coli
Description	This gene encodes a member of the T-cell factor/lymphoid enhancer-binding factor family of high mobility group (HMG) box transcriptional activators. This gene is expressed predominantly in T-cells and plays a critical role in natural killer cell and innate lymphoid cell development. The encoded protein forms a complex with beta-catenin and activates transcription through a Wnt/beta-catenin signaling pathway. Mice with a knockout of this gene are viable and fertile, but display a block in T-lymphocyte differentiation. Alternative splicing results in multiple transcript variants. Naturally-occurring isoforms lacking the N-terminal beta-catenin interaction domain may act as dominant negative regulators of Wnt signaling.
Form	Supplied as a 0.2 µm filtered solution in 25mM Tris, 0.3M NaCl, 0.1 mM EDTA, 50% glycerol, pH 7.4.
Molecular Mass	~45.2 kDa
AA Sequence	MGSSHHHHHHSSGLVPRGSHMASMTGGQQMGRGSMPQLDSGGGGAGGGDDL APDELLAFQDEGEEQDDKSRDSAAGPERDLAELKSSLVNESEGAAGGAGIPGVPGA GAGARGEAEALGREHAAQRLFPDKLPEPLEDGLKAPECTSGMYKETVYSAFNLLMH YPPPSGAGQHPQPQPPLHKANQPPHGVLPQLSLYEHFNSPHPTPAPADISQKQVHR

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PLQTPDLSGFYSLTSGSMGQLPHTVSWFTHPSLMLGSGVPGHPAAIPHPAIVPPSG
KQELQPFDRNLKTQAESKAKEAKKPTIKKPLNAFMLYMKEMRAKVIAECTLKESAAI
NQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKKKRRSREKH
QESTTETNWPRELKDGNGQESLSMSSSSSPA

Endotoxin <1EU/ug

Purity >90%

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 1 mg/ml

GENE INFORMATION

Gene Name TCF7 transcription factor 7 [Homo sapiens (human)]

Official Symbol TCF7

Synonyms TCF-1

Gene ID 6932

mRNA Refseq NM_001134851

Protein Refseq NP_001128323

MIM 189908

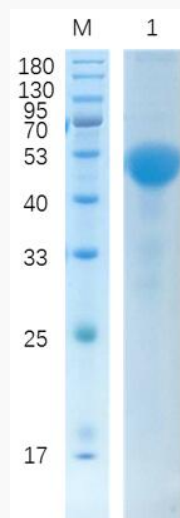
UniProt ID P36402

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SDS-PAGE



12% reducing SDS-PAGE analysis of purified TCF7 (approximately 10 mg protein loaded).

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