

Recombinant Human TCF7L2 Protein (1-456 aa), His-tagged

Cat. No. TCF7L2-2068H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TCF7L2 Protein (1-456 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Partial.
Species	Human
Source	E.coli
ProteinLength	1-456 aa
Description	Participates in the Wnt signaling pathway and modulates MYC expression by binding to its promoter in a sequence-specific manner. Acts as repressor in the absence of CTNNB1, and as activator in its presence. Activates transcription from promoters with several copies of the Tcf motif 5'-CCTTTGATC-3' in the presence of CTNNB1. TLE1, TLE2, TLE3 and TLE4 repress transactivation mediated by TCF7L2/TCF4 and CTNNB1. Expression of dominant-negative mutants results in cell-cycle arrest in G1. Necessary for the maintenance of the epithelial stem-cell compartment of the small intestine.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	54.9 kDa
AA Sequence	MPQLNGGGGDDLGANDELISFKDEGEQEEKSSENSAERDLADVKSSLVNESETN QNSSSDSEAERRPPRSESFRDKSRESLEEA AKRQDGGLFKGPPYPGYPFIMIPDL

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TSPYLPNGSLSPARTLHFQSGSTHYSAYKTIEHQIAVQYLQMKWPLLDVQAGSLQS
 RQALKDARSPSPAIVSNKVPVVQHPHHVHPLTPLITYSNEHFTPGNPPPHLPADVD
 PKTGIPRPPHPPDISPYYPPLSPGTVGQIPHPLGWLVPQQGQPVYPITTGGFRHPYPT
 ALTVNASMSRFPPHMVPPHHTLHTTGIPHPAIVTPTVKQESSQSDVGSLSHSSKHQDS
 KKEEEKKKPHIKKPLNAFMLYMKEMRAKVVAECTLKESAAINQILGRRWHALSREEQ
 AKYYELARKERQLHMQLYPGWSARDNYGKKKKRKRDKQPGETNEHSECFLNPCLS
 LPPIT

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name TCF7L2 transcription factor 7-like 2 (T-cell specific, HMG-box) [Homo sapiens]

Official Symbol TCF7L2

Synonyms TCF7L2; TCF4; TCF 4; hTCF-4; T-cell factor 4; TCF-4;

Gene ID 6934

mRNA Refseq NM_001146274

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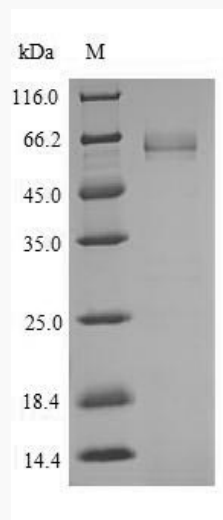
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Protein Refseq NP_001139746

MIM 602228

UniProt ID Q9NQB0



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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