

Recombinant Human CTCF protein

Cat. No. CTCF-15H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CTCF, transcript variant 1, was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene is a member of the BORIS + CTCF gene family and encodes a transcriptional regulator protein with 11 highly conserved zinc finger (ZF) domains. This nuclear protein is able to use different combinations of the ZF domains to bind different DNA target sequences and proteins. Depending upon the context of the site, the protein can bind a histone acetyltransferase (HAT)-containing complex and function as a transcriptional activator or bind a histone deacetylase (HDAC)-containing complex and function as a transcriptional repressor. If the protein is bound to a transcriptional insulator element, it can block communication between enhancers and upstream promoters, thereby regulating imprinted expression. Mutations in this gene have been associated with invasive breast cancers, prostate cancers, and Wilms' tumors. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	Lyophilized from a 0.2 M filtered solution of PBS, pH 7.4.
Molecular Mass	16.9 kD
AA Sequence	MEGDAVEAIVEESETFIK GKERKTYQRRREGGQEEDACHLPQNQTDGGGEVVQDVN SSVQMVMMEQLDPTLLQMKTEVMEGTVAPEAEAAVDDTQIITLQVVMEEQPINIGE

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LQLVQVPVPVTVPVATTSSVEELQGAYENEVSKEGLAESEPMI

Endotoxin Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity >95% as determined by SDS-PAGE and Coomassie blue staining

Notes Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name CTCF CCCTC-binding factor (zinc finger protein) [Homo sapiens]

Official Symbol CTCF

Synonyms CTCF; CCCTC-binding factor (zinc finger protein); transcriptional repressor CTCF; 11 zinc finger transcriptional repressor; CTCFL paralog; 11-zinc finger protein;

Gene ID 10664

mRNA Refseq NM_001191022

Protein Refseq NP_001177951

MIM 604167

UniProt ID P49711

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