

Recombinant Human CTCF/Transcriptional Repressor CTCF

MESGEN
INNOVATION BIOTECHNOLOGY

Cat.No # MCT9002

Lot.No : Refer to Vial



Packaging: 10µg \ 50µg \ 500µg

Known as Transcriptional Repressor CTCF; 11-Zinc Finger Protein; CCCTC-Binding Factor; CTCFL Paralog; CTCF

Description

Recombinant Human CCCTC-Binding Factor is produced by our E.coli expression system and the target gene encoding Met1-Ile154 is expressed. Transcriptional Repressor CTCF (CTCF) belongs to the CTCF Zinc-Finger Protein family. CTCF contains twelve C2H2-type zinc fingers and interacts with CHD8. CTCF is widely expressed in many tissues, and it is absent in primary spermatocytes. CTCF is involved in transcriptional regulation by binding to chromatin insulators and preventing interaction between promoter and nearby enhancers and silencers. CTCF plays an essential role in oocyte and preimplantation embryo development by activating or repressing transcription. In addition, CTCF is also indispensable in the epigenetic regulation and chromatin remodeling.

Formulation

Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

Quality control

Greater than 95% as determined by reducing SDS-PAGE.

Mol Mass : 16.9kDa

AP Mol Mass : 33kDa, reducing conditions.

Endotoxin : Less than 0.1 ng/µg (1 EU/µg) as determined by LAL test.

Dissolution

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 ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Store condition

Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20°C for 3 months.

For Research Use Only. Not for use in diagnostic procedures.

