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Datasheet for ABIN1691993 CTCF Protein (AA 1-154)

Overview

Quantity:	50 µg
Target:	CTCF
Protein Characteristics:	AA 1-154
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human Transcriptional Repressor CTCF/CTCF
Sequence:	MEGDAVEAIV EESETFIK GK ERKTYQRRRE GGQEEDACHL PQNQTDGGEV VQDVNSSVQM VMMEQLDPTL LQMKTEVM EG TVAPEAEAAV DDTQIITLQV VNMEEQPINI GELQLVQVPV PVTVPVATTS VEELQGAYEN EVSKEGLAES EPMI
Characteristics:	Recombinant Human Transcriptional Repressor CTCF/CTCF
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	CTCF
Alternative Name:	Transcriptional Repressor CTCF/CTCF (CTCF Products)

Target Details

Background:	<p>Recombinant Human Transcriptional Repressor CTCF/CTCF is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Ile154) of Human CTCF.</p> <p>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.</p>
Molecular Weight:	16.9 kDa
UniProt:	P49711

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>