

Recombinant Cattle IL10 Protein, His-tagged

Cat. No. IL10-997C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cattle IL10 Protein (Ser19-Lys178) with His tag was expressed in 293F.
Species	Cattle
Source	HEK293
ProteinLength	Ser19-Lys178
Description	The protein encoded by this gene is a cytokine produced primarily by monocytes and to a lesser extent by lymphocytes. This cytokine has pleiotropic effects in immunoregulation and inflammation. It down-regulates the expression of Th1 cytokines, MHC class II Ags, and costimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. This cytokine can block NF-kappa B activity, and is involved in the regulation of the JAK-STAT signaling pathway. Knockout studies in mice suggested the function of this cytokine as an essential immunoregulator in the intestinal tract. Mutations in this gene are associated with an increased susceptibility to HIV-1 infection and rheumatoid arthritis.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 19.1 kDa; Accurate Molecular Mass: 21 kDa
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	IL10 interleukin 10 [Bos taurus (cattle)]
Official Symbol	IL10
Synonyms	IL10; interleukin 10; IF2A; interleukin-10; CSIF; IL-10; cytokine synthesis inhibitory factor; interferon 2A
Gene ID	281246
mRNA Refseq	NM_174088
Protein Refseq	NP_776513
UniProt ID	P43480

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