

Active Recombinant Chicken IL10 protein, His-tagged

Cat. No. IL10-2288C Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Chicken IL10 protein(Q6A2H4)(22~175 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Chicken
Source	HEK293
ProteinLength	22-175 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Interleukin 10, also known as cytokine synthesis inhibitory factor (CSIF), is the charter member of the IL 10 family of alpha helical cytokines that also includes IL 19, IL 20, IL 22, IL 24, and IL 26/AK155. Mature human IL_x001e_10 shares 72%-86% amino acid sequence identity with bovine, canine, equine, feline, mouse, ovine, porcine, and rat IL 10. Whereas human IL 10 is active on mouse cells, mouse IL 10 does not act on human cells. IL 10 is a critical molecule in the control of viral infections and allergic and autoimmune inflammation. It promotes phagocytic uptake and Th2 responses but suppresses antigen presentation and Th1 proinflammatory responses. The activity of IL10 is usually measured by a cell proliferation assay using MC/9 mouse mast cells. MC/9 cells were seeded into triplicate wells of 96-well plates at a density of 8,000 cells/well with 2% serum standard DMEM which contains various concentrations of recombinant chicken IL4. After incubated for 3 days, cells were observed by inverted

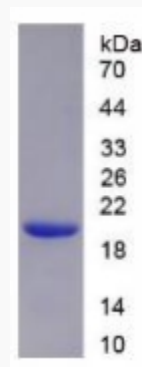
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microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μ of CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 2-4 hours at 37°C. Proliferation of MC/9 cells after incubation with IL10 for 3 days observed by inverted microscope was shown. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant chicken IL10 for 3 days. It was obvious that IL10 significantly increased cell viability of MC/9 cells. The ED50 is 0.92 -9.2 ng/ml.

Molecular Mass	19.9kDa
Endotoxin	<1.0EU per 1 μ g (determined by the LAL method).
Purity	> 95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

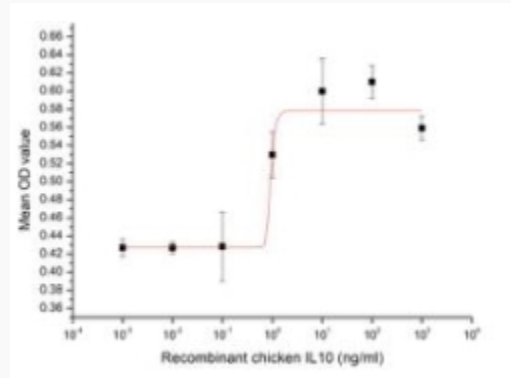
SDS-PAGE


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