

Active Recombinant Rat IL10 Protein (161 aa)

Cat. No. IL10-371I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat Interleukin-10 (IL-10) produced in E. coli is a single non-glycosylated polypeptide chain containing 161 amino acids. A fully biologically active molecule, recombinant rat Interleukin-10 (IL-10) has a molecular mass of 18.7kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Rat
Source	E.coli
ProteinLength	161
Description	Interleukin-10 (IL-10), also known as cytokine synthesis inhibitory factor (CSIF), is an anti-inflammatory cytokine produced by a variety of cell lines including T-cells, macrophages and mast cells. IL-10 is classified as a class-2 cytokine, a set of cytokines including IL-19, IL-20, IL-22, IL-24, and IL-26. IL-10 can inhibit the synthesis of pro-inflammatory cytokines such as IFN-gamma, IL-2, IL-3, TNF and GM-CSF. It also stimulates Th2 responses, but suppresses the antigen-presentation capacity of antigen presenting cells.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.5 µg/mL, measured by a cell proliferation assay using C6 cells, corresponding to a specific activity of > 2.0 × 10 ³ units/mg.
Molecular Mass	18.7 kDa, observed by reducing SDS-PAGE.

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AA Sequence	MSKGHSIKGDNNCTHFPVSQTHMLRELRAAFSQVKTFQKKDQLDNIVLTDSLLQDF KGYLGCQALSEMIKFYLVVEVMPQAENHGPEIKEHLNSLGEKLTWQLRRCHRFLP CENKSKAVEQVKNDNFNKLQDKGVYKAMNEFDIFINCIEAYVTLKMKN
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant rat Interleukin-10 (IL-10) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, IL-10 should be stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.

GENE INFORMATION

Gene Name	IL10 interleukin 10 [Rattus norvegicus]
Official Symbol	IL10
Synonyms	IL10; interleukin 10; interleukin-10; CSIF; IL-10; cytokine synthesis inhibitory factor; IL10X;
Gene ID	25325
mRNA Refseq	NM_012854
Protein Refseq	NP_036986

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