

Active Recombinant Rat Il10 Protein

Cat. No. Il10-260I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Il10 Protein without tag was expressed in CHO.
Species	Rat
Source	CHO
Description	Interleukin-10 (IL-10), initially known as Cytokine Synthesis Inhibitory Factor (CSIF), belongs to the IL-10 family and shares more than 80% sequence homology with the Epstein-Barr Virus protein BCRF1. It is produced by many immune cells, such as T-cells, macrophages, mast cells and dendritic cells. It is usually secreted as a homodimer and, upon binding to its receptor, inhibits the synthesis of a number of cytokines, including IFN-gamma, IL-2, IL-3, TNF and GM-CSF produced by activated macrophages and Th2 cells. It also displays the ability to suppress Antigen-Presenting Cell (APC) function. The net effect of Interleukin-10 appears to be inhibitory; however, stimulatory effects, such as stimulation of B cell maturation and antibody production, are also reported.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 8µg/mL, measured in a bioassay using C6 cells.
Molecular Mass	8-22 kDa, observed by reducing SDS-PAGE.
AA Sequence	SKGHSIRGDNNCTHFPVSQTHMLRELRAAFSQVKTFQKKDQLDNILLTDSLLQDFK GYLGCQALSEMIKFYLVEVMPQAENHGPEIKEHLNSLGEKCLKTLWIQLRRCHRFLPC

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ENKSKAVEQVKNDFNKLQDKGVYKAMNEFDIFINCIEAYVTLKMKN

Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant rat Interleukin-10(IL-10) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Rat Interleukin-10 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS 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
UniProt ID	P29456

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