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IL-10 Protein (AA 19-178)



Images



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Quantity:	50 µg
Target:	IL-10 (IL10)
Protein Characteristics:	AA 19-178
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 0.2 ng/mL, measured in a cell proliferation assay using MC/9 cells.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	IL-10 (IL10)
Alternative Name:	Interleukin-10(IL-10) (IL10 Products)
Background:	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 Epstein-Barr Virus protein
	BCRFI. 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

Target Details

produced by activated macrophages and Th2 cells. It also displays 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.

Synonyms: B-TCGF, CSIF, TGIF

Molecular Weight:

18-19 kDa, observed by reducing SDS-PAGE.

UniProt:

P22301

Pathways:

Cellular Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Production of Molecular Mediator of Immune Response, Maintenance of Protein Location, Cancer Immune Checkpoints

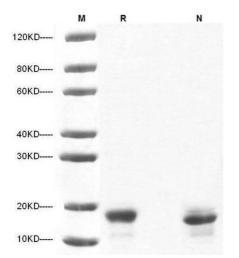
Application Details

Restrictions:

For Research Use only

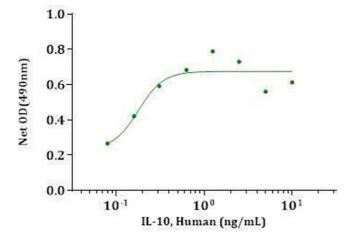
Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O or PBS at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant Human Interleukin-10 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human Interleukin-10 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.
Expiry Date:	6 months



SDS-PAGE

Image 1. 5 μ g of IL-10, Human was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.



Activity Assay

Image 2. IL-10, Human stimulates cell proliferation of the MC/9 cells. The ED50 for this effect is less than 0.2ng/mL(0.12 ng/mL).

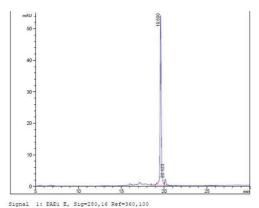


Image 3.

Pea		RT [min]	Type	Width	Area	Area %
		furni		[[mrn]		
1 8	1	19.590	MF	0.150	487.462	95.820
1	21	20.123	FM	0.179	21.267	4.180