

Rev05
Update: Jan,19,2024

DATASHEET

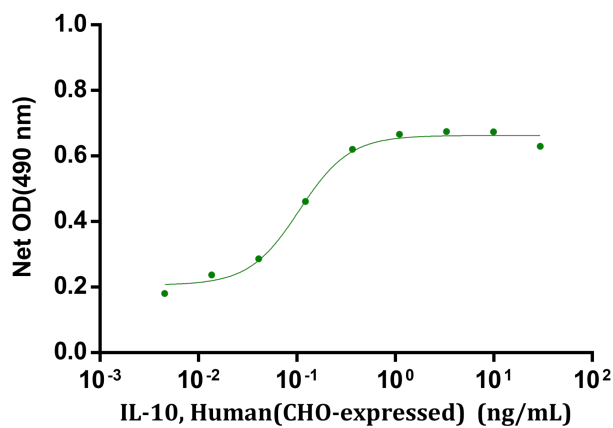
IL-10, Human(CHO-expressed)

Cat. No.: Z03121

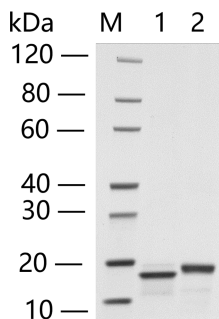
Product Introduction

| | |
|----------------------------------|--|
| Species | Human |
| Protein Construction | IL-10 (Ser19-Asn178) Accession # P22301 |
| Purity | > 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC |
| Endotoxin Level | < 0.2 EU/μg of protein by gel clotting method |
| Biological Activity | ED ₅₀ < 2.0 ng/ml, measured in a cell proliferation assay using MC/9 cells. |
| Expression System | CHO |
| Apparent Molecular Weight | 18~19 kDa, on SDS-PAGE under reducing conditions. |
| Formulation | Lyophilized after extensive dialysis against PBS. |
| Reconstitution | It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml. |
| Storage & Stability | Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles. |

Examples



ED₅₀ < 2.0 ng/ml, measured in a cell proliferation assay using MC/9 cells.



Lane 1: 2 µg of IL-10, Human(CHO-expressed), non-reducing (NR)

Lane 2: 2 µg of IL-10, Human(CHO-expressed), reducing (R)
 > 95% as analyzed by SDS-PAGE

Background

Target 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 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

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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