

Rev06
Update: Jan,19,2024

DATASHEET

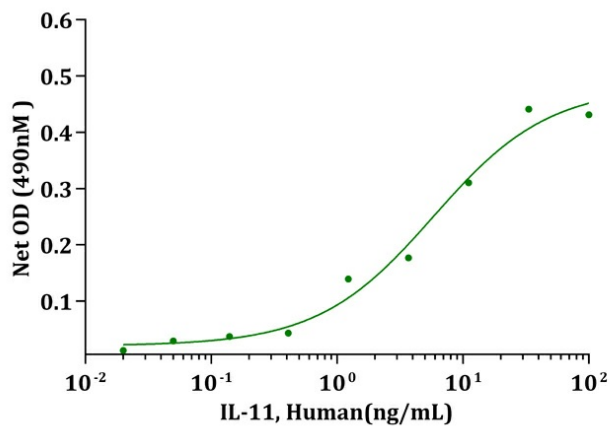
IL-11, Human(CHO-expressed)

Cat. No.: Z03108

Product Introduction

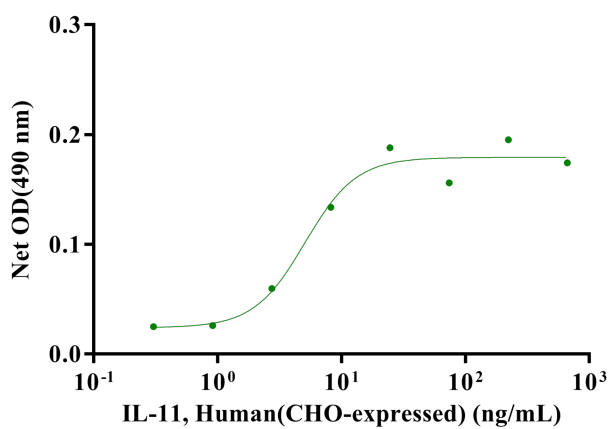
Species	Human
Protein Construction	IL-11 (Pro22-Leu199) Accession # P20809-1
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 0.2 EU/ μ g of protein by gel clotting method
Biological Activity	ED ₅₀ < 5.0 ng/ml, measured in a proliferation assay using TF-1 cells.
Expression System	CHO
Apparent Molecular Weight	~23 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 μ g/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

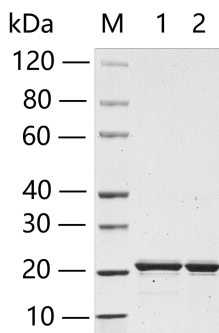


Biological Activity

IL-11, Human (Cat. No. Z03108) stimulates cell proliferation of T11 cells. The ED₅₀ for this effect is less than 5ng/mL.



ED₅₀ < 5.0 ng/ml, measured in a proliferation assay using TF-1 cells.



Lane 1: 2 µg of IL-11, Human(CHO-expressed), reducing (R)
 Lane 2: 2 µg of IL-11, Human(CHO-expressed), non-reducing (NR)

> 95% as analyzed by SDS-PAGE

Background

Target Background : Interleukin-11 is a pleiotropic cytokine that was originally detected in the conditioned medium of an IL-1 α -stimulated primate bone marrow stromal cell line (PU-34) as a mitogen for the IL-6-responsive mouse plasmacytoma cell line T11. IL-11 has multiple effects on both hematopoietic and non-hematopoietic cells. Many of the biological effects described for IL-11 overlap with those for IL-6. In vitro, IL-11 can synergize with IL-3, IL-4 and SCF to shorten the G0 period of early hematopoietic progenitors. IL-11 also enhances the IL-3-dependent megakaryocyte colony formation. IL-11 has been found to stimulate the T cell-dependent development of specific immunoglobulin-secreting B cells.

Synonyms : IL11; AGIF; IL-11; interleukin 11

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

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