

Rev05
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DATASHEET

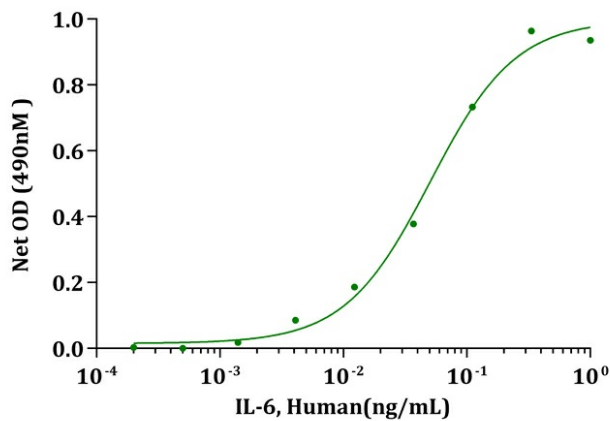
IL-6, Human(CHO-expressed)

Cat. No.: Z03134

Product Introduction

Species	Human
Protein Construction	IL-6 (Pro29-Met212) Accession # Q75MH2
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	≤ 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 1.0 ng/ml, measured in a cell proliferation assay using TF-1 cells.
Expression System	CHO
Apparent Molecular Weight	15~25 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. Avoid repeated freeze-thaw cycles.

Examples



Biological Activity

IL-6, Human (Cat. No. Z03134) stimulates cell proliferation of 7TD1 cells. The ED₅₀ for this effect is less than 0.06ng/mL.

Background

Target Background : Interleukin-6 (IL-6), also known as BSF-2, CDF and IFNB2, is a pleiotropic cytokine that acts in both pro-inflammatory and anti-inflammatory responses. It is produced mainly by T cells, macrophages, monocytes, endothelial cells and muscle cells. IL-6 binds to IL-6 receptor (IL-6R) to trigger the association of IL-6R with gp130, inducing signal transduction through JAKs and STATs. The biological functions of IL-6 are diverse. It stimulates B cell differentiation and antibody production, myeloma and plasmacytoma growth, as well as nerve cell differentiation. It also acts as a myokine, produced by muscle cells in response to muscle contraction, to be released to the blood stream to help break down fats and improve insulin resistance.

Synonyms : IL6; BSF-2; CDF; IFNB2; IFN-beta-2;

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

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