GenScript Make Research Easy

DATASHEET

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## IL-6, Human

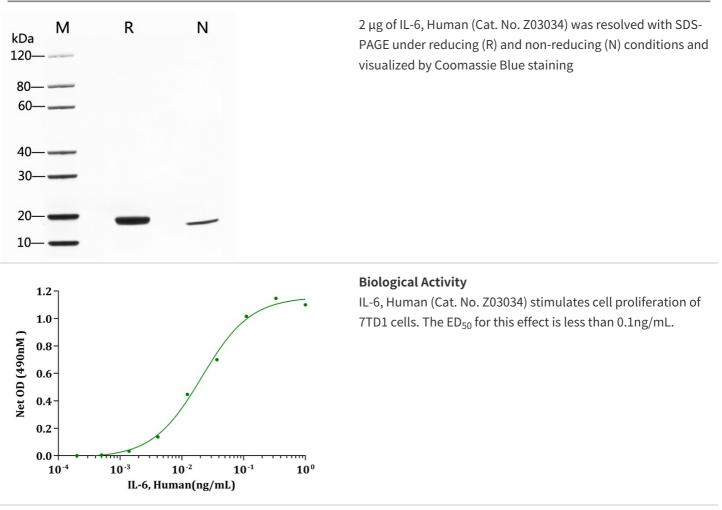
Cat. No.: Z03034

## **Product Introduction**

Human
Expressed with an N-terminal Met.
IL-6 (Pro29-Met212) Accession # Q75MH2
> 95% as analyzed by SDS-PAGE
$< 0.2 EU/\mu g$ of protein by gel clotting method
$ED_{50}$ < 1.0 ng/ml, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 1.0 $\times$ 10 <sup>6</sup> units/mg.
E. coli
~20.9 kDa, on SDS-PAGE under reducing conditions.
Lyophilized after extensive dialysis against PBS.
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 <sub>2</sub> O up to 100 $\mu$ g/ml.
Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upor 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





## Background

**Target Background :** Interleukin-6 (IL-6), also known as BSF-2, CDF and IFNB2, is a pleiotropic cytokine that participates 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, and nerve cell differentiation. It also acts as a myokine, produced by muscle cells in response to muscle contraction and released into the blood stream to help break down fats and improve insulin resistance.

**Synonyms :** IL6; 26 kDa protein; IFN-β2; IFN-b2; B cell differentiation factor; BCDF; BSF-2; HPGF; HSF; MGI-2

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