

Rev08
Update: Aug,20,2025

DATASHEET

IL-6, Mouse

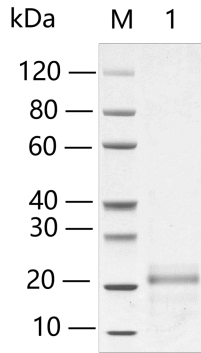
Cat. No.: Z02767

Product Introduction

Species	Mouse
Protein Construction	Expressed with an N-terminal Met. IL-6 (Phe25-Thr211) Accession # P08505
Purity	> 97% as analyzed by SDS-PAGE > 97% as analyzed by HPLC
Endotoxin Level	< 1 EU/μg of protein by LAL method
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by the dose-dependent stimulation of the proliferation of IL-6-dependent murine 7TD1 cells is less than 0.02 ng/ml, corresponding to a specific activity of $> 5.0 \times 10^7$ IU/mg.
Expression System	E. coli
Theoretical Molecular Weight	21.7 kDa
Formulation	Lyophilized from a 0.2 μm filtered solution in 30 mM Acetic Acid, pH 3.0, 150 mM NaCl, 5 % Trehalose, 0.02 % Tween-20.
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 sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.
Storage & Stability	Upon receiving, this product remains stable for 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for 1 week at 4°C or for 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Examples

Lane 1: 2 μ g of IL-6, Mouse, reducing (R)
> 97% as analyzed by SDS-PAGE



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- β 2; 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.

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