

Rev04  
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**DATASHEET**

# IL-6, Mouse

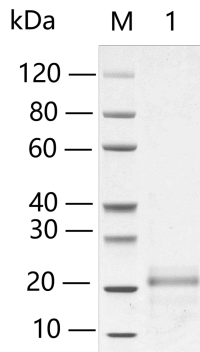
Cat. No.: Z02767

## Product Introduction

|                                     |  |
|-------------------------------------|--|
| <b>Species</b>                      | Mouse  |
| <b>Protein Construction</b>         | Expressed with an N-terminal Met.<br><b>IL-6 (Phe25-Thr211)<br/>Accession # P08505</b>   |
| <b>Purity</b>                       | > 97% as analyzed by SDS-PAGE<br>> 97% as analyzed by HPLC   |
| <b>Endotoxin Level</b>              | < 1 EU/ $\mu$ g of protein by LAL method   |
| <b>Biological Activity</b>          | Fully biologically active when compared to standard. The ED <sub>50</sub> 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. |
| <b>Expression System</b>            | E. coli  |
| <b>Theoretical Molecular Weight</b> | 21.7 kDa   |
| <b>Formulation</b>                  | Lyophilized from a 0.2 $\mu$ m filtered solution in PBS, pH 7.4.   |
| <b>Reconstitution</b>               | 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.                       |
| <b>Storage &amp; Stability</b>      | Upon receiving, this product remains stable for up to 6 months at -70°C or -20°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

Lane 1: 2  $\mu$ 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- $\beta$ 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.**

生产商：南京金斯瑞生物科技有限公司 江苏省南京市江宁区科学园雍熙路28号

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China