

Rev03
 Update: Dec,14,2021

DATASHEET

IL-6, His, Mouse

Cat. No.: Z03189

Product Introduction

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| Species | Mouse |
| Protein Construction | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> IL-6 (Phe25-Thr211) Accession # P08505 </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center;"> Poly-His </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> N-term C-term </div> |
| Purity | > 95% as analyzed by SDS-PAGE |
| Endotoxin Level | < 0.2 EU/μg of protein by gel clotting method |
| Biological Activity | ED ₅₀ < 3.0 pg/ml, measured in a bioassay using 7TD1 cells. |
| Expression System | CHO |
| Apparent Molecular Weight | 24~26 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. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles. |

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.