

DATASHEET
Version 20181206**IL-6, Human(CHO-expressed)****Cat. No.:** Z03134-1**Size:** 1.0 mg**Synonyms:** 26 kDa protein, IFN- β 2, B cell differentiation factor (BCDF), BSF-2, HPGF, HSF, MGI-2**Description:**

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.

Amino Acid Sequence:

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00001 PVPPGEDSKD VAAPHRQPLT SSERIDKQIR YILDGISALR
00041 KETCNKSNMC ESSKEALAEN NLNLPKMAEK DGCFSQGFNE
00081 ETCLVKIITG LLEFEVYLEY LQNRFSSEE QARAVQMSTK
00121 VLIQFLQKKA KNLDAITTPD PTNASLLTK LQAQNLWLQD
00161 MTTHLILRSF KEFLQSSLRA LRQM
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Source: CHO**Species:** Human**Biological Activity:** ED₅₀ < 0.06 ng/ml, measured in a cell proliferation assay using 7TD1 cells.**Molecular Weight:** 21-23 kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 µg/ml.**Purity:** > 95% as analyzed by SDS-PAGE.**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant Human Interleukin-6 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human Interleukin-6 should be stable up to 1 week at 4°C or up to 2 months at -20°C.