

IL-6, Human(CHO-expressed)

Cat. No.: Z03134-50

Size: 50.0 ug

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 ESSKEALAEK NLNLPKMAEK DGCQSGFNE
00081 ETCLVKIITG LLEFEVYLEY LQNRFESSEE QARAVQMSTK
00121 VLIQFLQKKA KNLDAITTPD PTTNASLLTK LQAQNWQLQD
00161 MTHLLILRSF 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 μ g/ml.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/ μ g, 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.