

Recombinant Murine Interleukin-6 (rm IL-6)

Murine **Interleukin-6** is a pleiotropic cytokine that plays important roles in acute phase reaction, antigen specific immune responses and hematopoiesis. Main sources of Interleukin-6 are monocytes, T-cells, fibroblasts and endothelial cells. IL-6 is a major mediator of acute phase reaction, it functions as B-cell differentiation factor (BCDF) and induces the proliferation of thymocytes. Moreover it has neurotrophic activity on certain neuronal cell types. IL-6 is also known to act as autocrine growth modulator of some tumor types. Murine IL-6 is inactive on human cells, while both human and murine are equally active on murine cells.

Recombinant murine IL-6 produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 187 amino acids and having a molecular mass of 21.7 kDa.

Synonyms : BCDF, BSF-2, IFN-beta-2, HPGF, HSF

Source: *Escherichia coli*

AA Sequence: MFPTSQVRRG DFTEDTTPNR PVYTTSQVGG LITHVLWEIV EMRKELCNGN
SDCMNDDAL AENNLKLP EI QRNDGQYQTG YNQEICLLKI SSSLLEYHSY
LEYMKNNLKD NKKDKARVLQ RDTETLIHIF NQEVKDLHKI VLPTPISNAL
LTDKLESQKE WLRTKTIQFI LKSLEEFLKV TLRSTRQT

Formulation: Lyophilisate from a 0.22 µm filtered carrier free solution in PBS pH 7.5 containing 0.25 M NaCl

Reconstitution: Reconstitute in sterile endotoxin free water not less than 100 µg/ml

Stability: The lyophilized protein is stable for at least 2 years at -20°C. Reconstituted rm IL-6 is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at -20°C. Avoid repeated freeze/thaw cycles.

Biological Activity: Determined by its growth promoting effect on 7TD1 cells the ED50 is < 0.02 ng/ml

Purity: 95% (verified by SDS-PAGE / silver stain)

Endotoxicity: The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method

Order N°: rm IL-6 +Size
available sizes: 2 µg, 10 µg, 50 µg

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