

Recombinant Murine Interleukin-6 (rm IL-6)

Synonymes: IFN- β 2, B cell differentiation factor (BCDF), BSF-2, HPGF, HSF, MGI-2, Interleukin HP-1, B-cell hybridoma growth factor.

Introduction: IL-6 is a potent pro-inflammatory cytokine primarily produced by activated T-cells and an assortment of other cells including endothelial cells and macrophages. IL-6 affects B- and T-lymphocytes and has been shown to have a role in host defense, acute phase reactions, immune responses and hematopoiesis.

Description: 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. The rm IL-6 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.22 μ m filtered carrier free solution in PBS pH 7.5 containing 0.25 M NaCl. The aliquots of 1 μ g and 2 μ g contain Trehalose 5% (w/vol) for better recovery.

Solubility: It is recommended to reconstitute the lyophilized rm IL-6 in steril H₂O not less than 100 μ g/ml which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rm IL-6 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm IL-6 should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence: MFPTSQVRRG DFTEDTTPNR PVYTTSQVGG LITHVLWEIV EMRKELCNGN SDCMNNDDAL AENNLKPEI QRNDGCYQTG YNQEICLLKI SSSLLEYHSY LEYMKNLKD NKKDKARVLQ RDTETLIHIF NQEVKDLHKI VLPTPISNAL LTKLESQKE WLRTKTIQFI LKSLEEFKLV TLRSTRQT

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

Biological Activity: The ED₅₀ as determined by its growth promoting effect on 7TD1 cells is < 0.02 ng/ml, corresponding to a specific activity of 5.0 x 10⁷ IU/mg.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 μ g	Cat.N°	12340062
<i>medium</i>	10 μ g	Cat.N°	12340063
<i>large</i>	50 μ g	Cat.N°	12340065
<i>x-large</i>	250 μ g	Cat.N°	12340067
<i>xx-large</i>	1000 μ g	Cat.N°	12340068

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