

IL 6 Mouse

Description: Interleukin-6 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 187 amino acids and having a molecular mass of 21709 Dalton. The IL-6 is purified by proprietary chromatographic techniques.

Synonyms: IFN- β , B cell differentiation factor (BCDF), BSF-2, HPGF, HSF, MGI-2, IL-6, Interleukin HP-1, B-cell hybridoma growth factor.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: FPTSQVRRGD FTEDTTPNRP VYTTSQVGGL ITHVLWEIVE
MRKELCNGNS DCMNDDALA ENNLKLEIQ RNDGCTQTGY NQICLLKIS SGLLEYHSYL
EYMKNLKDND KKDKARVLQR DTETLIHFN QEVKDLHKIV LPTPISNALL TDKLESQKEW
LRTKTIQFIL KSLEEFKVT LRSTRQT.

Purity: Greater than 96.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

Lyophilized from a 0.2

Stability:

Lyophilized Interleukin-6 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL6 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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized Mouse IL-6 in sterile 18M-cm H₂O not less than 100

Introduction:

Interleukin-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.

Biological Activity:

The ED₅₀ as determined by the dose-dependant stimulation of the proliferation of IL-6-dependent murine 7TD1 cells is $\approx$ 0.02 ng/ml, corresponding to a specific activity of $\approx$ 50,000,000 units/mg.

References:

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Title: Interleukin-10 overexpression in macrophages suppresses atherosclerosis in hyperlipidemic mice. Publication: Published online before print March 30, 2010, doi: 10.1096/fj.09-148155 August

2010 The FASEB Journal vol. 24 no. 8 2869-2880

.Link: <http://www.fasebj.org/content/24/8/2869.full>



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