



Interleukin-6, Rhesus Macaque recombinant (rrmIL-6)

Catalog No: 97594
Lot No: XXXXX
Source: *E. coli*
Synonyms: IFN-b2, B cell differentiation factor, BCDF, BSF-2, HPGF, HSF, MGI-2, B-cell stimulatory factor 2, Interferon beta-2, Hybridoma growth factor, CTL differentiation factor, CDF, IL-6, HGF

Background

IL-6 is a cytokine with a wide variety of biological functions: it plays an essential role in the final differentiation of b-cells into ig-secreting cells, it induces myeloma and plasmacytoma growth, it induces nerve cells differentiation, in hepatocytes it induces acute phase reactants.

Description

Interleukin-6 Rhesus Macaque recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 186 amino acids and having a molecular mass of 21.1 kDa. IL-6 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized IL-6 in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized IL-6, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-6 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 97.0% as determined by SDS-PAGE and HPLC analyses.

Amino Acid Sequence

MAPVLPGEDS KNVAAPHSQP LTSSERIDKH IRYILDGISA LRKETCNRSN MCESSKEALA ENNLNLPKMA EKDGCFQSGF
NEDTCLVKII TGLLEFEVYL EYLQNRFESE EQARAVQMS TKVLIQFLQK KAKNLDAITT PEPTTNASLL TKLQAQNQWL
QDMTTHLILR SFKEFLQSNL RALRQM

Activity

Fully biologically active when compared to standard. The ED50 determined by a cell proliferation assay using IL-6-dependent murine 7TD1 cells is less than 0.1 ng/ml, corresponding to a specific activity of >1.0 × 10,000,000 IU/mg.

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