



PRODUCT DATA SHEET

Product: IL-6 (recombinant human)

Cat. No.: BC-279 (20 µg)

Synonyms:

Interleukin-6, B-cell stimulatory factor 2, BSF-2, Interferon beta-2, Hybridoma growth factor, CTL differentiation factor, CDF, HGF, IFN-b2, B cell differentiation factor, BCDF, HPGF, HSF, MGI-2.

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:

Recombinant Human IL-6 produced in *E. Coli* is a single, non-glycosylated polypeptide chain containing 184 amino acids and having a molecular mass of 21,000 Dalton. The recombinant human IL-6 is purified by proprietary chromatographic techniques.

Amino Acid Sequence:

The sequence of the first five N-terminal amino acids was determined to be Met-Pro-Val-Pro-Pro.

Origin:

Produced in *E. Coli*.

Format:

Sterile filtered white powder. Lyophilized from a 0.2 µm filtered concentrated (1 mg/mL) solution in PBS, pH 7.4.

Purity:

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

Reconstitution:

Reconstitute in sterile 18MΩ-cm H₂O at not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.

Biological Activity:

The ED₅₀ as determined by the dose-dependant stimulation of mouse 7TD1 cells is less than 0.1 ng/mL.

Storage:

Lyophilized recombinant human IL-6, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution recombinant human 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). Avoid freeze/thaw cycles.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.