



PRODUCT DATA SHEET

Product: Interleukin-6 (recombinant mouse)

Cat. No.: BC-280 (10 µg)

Synonyms:

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

Background:

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.

Description:

Recombinant Mouse Interleukin-6 produced in *E. Coli* is a single, non-glycosylated, polypeptide chain containing 187 amino acids and having a molecular mass of 21,709 Dalton. The IL-6 is purified by proprietary chromatographic techniques.

Amino Acid Sequence:

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Phe-Pro-Thr-Ser.

Origin:

Produced in *E. Coli*.

Format:

Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized without any additives.

Purity:

Greater than 95.0% as determined by SDS-PAGE.

Reconstitution:

Reconstitute the lyophilized Recombinant Mouse IL-6 in 10 mM HCl to 0.1 - 1.0 mg/mL to regain full activity, and then further dilute to other aqueous solutions.

Biological Activity:

The ED₅₀ as determined by the dose-dependant induction of 7TD1 cell proliferation, is 0.018 ng/mL, corresponding to a Specific Activity of 55,555,555 IU/mg.

Storage:

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. 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.