



PRODUCT DATA SHEET

Product: IL-4 (recombinant mouse)

Cat. No.: BC-277 (20 µg)

Synonyms:

Interleukin-4 precursor, B-cell stimulatory factor 1, BSF-1, Lymphocyte stimulatory factor 1, IGG1 induction factor, B-cell IgG differentiation factor, B-cell growth factor

Description:

Recombinant mouse IL-4 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 120 amino acids and having a molecular mass of 13,500 Dalton. Recombinant IL-4 is purified by proprietary chromatographic techniques.

Amino Acid Sequence:

The sequence of the first five N-terminal amino acids was determined to be Met-His-Ile-His-Gly.

Origin:

Produced in *E. Coli*.

Format:

Sterile filtered white powder. Lyophilized from 1 mg/mL solution in water containing no additives.

Purity:

Greater than 98.0% as determined by RP-HPLC, anion-exchange FPLC, reducing and non-reducing SDS-PAGE Silver Stained gel. Dimers and aggregates: less than 1% as determined by silver-stained SDS-PAGE.

Endotoxin:

Less than 0.1 ng/µg (IEU/µg) of recombinant mouse IL-4.

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:

Recombinant mouse Interleukin-4 is fully biologically active when compared to standard. The ED₅₀ as determined by the dose-dependant proliferation of mouse HT-2 cells is less than 2 ng/mL, corresponding to a specific activity of 5 x 10⁵ IU/mg.

Storage:

Lyophilized recombinant mouse IL-4, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution recombinant mouse IL-4 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).

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.