



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet Recombinant Human Interleukin-4 CHO

Catalog No.
228-10933

Source:
Chinese Hamster Ovarian Cells.

Synonyms

BCGF, BCDF, B cell stimulating factor, BSF-1, Lymphocyte stimulatory factor 1, IL-4, MGC79402, Binetrakin, Pitrakinra.

Introduction:

IL4 is a pleiotropic cytokine produced by activated T cells. IL4 is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. IL4, IL13 and IL5 are found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

Description:

Interleukin-4 Human Recombinant produced in CHO is a single, non-glycosylated polypeptide chain containing 129 amino acids and having a molecular mass of 14 kDa, the glycosilation of IL-4 migrates as 18 kDa on SDS-PAGE.

The IL-4 is purified by proprietary chromatographic techniques.

Physical Appearance:

Sterile Filtered White Lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a Phosphate- Buffered Saline (pH 7.4).

Solubility

It is recommended to reconstitute the lyophilized Interleukin-4 in sterile 18MΩ-cm H₂O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized Interleukin-4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL4 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.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Purity

Greater than 97.0% as determined by

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Biological Activity

Measured in a cell proliferation assay using TF-1 cells. The ED50 for this effect is 0.05-0.2 ng/ml.

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