



Product Datasheet

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| Product Name | Recombinant Mouse Interleukin-4 |
| Cata No | CB500184 |
| Source | Escherichia Coli. |
| Synonyms | BCGF, BCDF, B cell stimulating factor, BSF-1, Lymphocyte stimulatory factor 1, IL-4, MGC79402, Binetrakin, Pitrakinra. |

Description

Interleukin-4 is a pleiotropic cytokine produced primarily by activated T lymphocytes, basophils and mast cells. Multiple immune response-modulating functions are performed by IL-4 on a variety of cell types and it has an important role in the regulator of isotype switching, induction of IgE production in B lymphocytes and differentiation of precursor T helper cells. IL-4 binds to both membrane-bound and secreted soluble IL-4 receptors.

Description

Interleukin-4 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 120 amino acids and having a molecular mass of 13500 Dalton.
The IL-4 is purified by proprietary chromatographic techniques.

Purity

Greater than 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE

Biological Activity

The ED50 as determined by the dose-dependant proliferation of Murine HT-2 cells is < 2 ng/ml, corresponding to a Specific Activity of 5×10^5 IU/mg.

Solubility

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

Storage

Lyophilized Interleukin-4 although stable at room temperature for 3 weeks, should be stored desiccated below -18 $^{\circ}$ C. Upon reconstitution IL4 should be stored at 4 $^{\circ}$ C between 2-7 days and for future use below -18 $^{\circ}$ C.
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Please prevent freeze-thaw cycles.

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