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32-1404: mIL 4 Recombinant Protein

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

Description

Source : Escherichia coli. 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. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 96.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Content :	Lyophilized from a 0.2µm concentrated (1mg/ml) solution in PBS pH 7.4.
Storage condition :	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.
Amino Acid :	MHIHGCDKNHLREIIGILNEVTGEGTPCTEMDVPNVLTATKNTTESELVCRASKVLRIFYLKHGKTPCLKKNSSVL MELQRLFRAFRCLDSSISCTMNESKSTSLKDFLESLKSIMQMDYS.

Application Note

It is recommended to reconstitute the lyophilized Interleukin 4 in sterile 10mM HAc not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The ED50 as determined by the dose-dependant induction of HT-2 cell proliferation is less than 2 ng/ml corresponding to a Specific Activity of 500,000IU/mg.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.