

32-1407: IL4 Yeast Recombinant Protein

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

Description

Source : Pichia pastoris. Interleukin-4 Human Recombinant produced in yeast is a single, glycosylated polypeptide chain containing 129 amino acids.The IL-4 is purified by proprietary chromatographic techniques. 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.

Product Info

Amount : 10 µg
Purification : Greater than 98% as determined by SDS-PAGE.
Content : The protein was lyophilized from 0.2µm filtered solution in 20mM sodium phosphate buffer pH 6.0 in absence of any carrier protein.
Storage condition : Lyophilized Interleukin-4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Interleukin-4 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Application Note

It is recommended to reconstitute the lyophilized Interleukin-4 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The biological activity is determined by measuring the dose-dependent proliferation of human T cells and CD23 expression. A concentration range of 0.1-10.0 ng/ml is effective for most in vitro applications. ED50 = 0.05-0.4ng/ml.