

32-1403: IL 4 HEK Recombinant Protein

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

Description

Source : HEK. IL-4 Human Recombinant produced in HEK cells is a glycosylated monomer, having a molecular weight range of 14-19kDa due to glycosylation. 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 95% as observed by SDS-PAGE.
Content : The IL-4 was lyophilized from a 0.2µm filtered protein solution (0.68mg/ml) in 1xPBS.
Storage condition : Lyophilized IL-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.

Application Note

It is recommended to reconstitute the lyophilized IL-4 in sterile 1xPBS containing 0.1% endotoxin-free recombinant HSA. The activity was determined by the dose dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line) and was found to be 0.17ng/ml.