



Interleukin-4, HEK, human recombinant (rHuIL-4-HEK)

Catalog No: 97518
Lot No: XXXXX
Source: HEK293
Synonyms: BCGF, BCDF, B cell stimulating factor, BSF-1, Lymphocyte stimulatory factor 1, IL-4, MGC79402, Binetrakin, Pitrakinra

Background

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 HEK cells is a glycosylated monomer, having a molecular weight range of 14-19 kDa due to glycosylation. IL-4 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

IL4 was lyophilized from 0.2 µm filtered protein solution (0.68 mg/ml) in 1xPBS.

Solubility

It is recommended to reconstitute the lyophilized IL-4 in sterile 1xPBS containing 0.1% endotoxin-free recombinant HSA.

Stability

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.

Purity

Greater than 95% as observed by SDS-PAGE.

Activity

The activity was determined by the dose dependent stimulation of proliferation of human TF-1 cells (human erythroleukemic indicator cell line) and was found to be 0.17 ng/ml.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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