

Recombinant human IL-4 protein

Catalog Number: ILD0905

PRODUCT INFORMATION

Expression system

E.coli

Domain

25-153aa

UniProt No.

P05112

NCBI Accession No.

NP_000580

Alternative Names

Pitrakinra, MGC79402, Lymphocyte stimulatory factor 1, Interleukin-4 isoform 1, Interleukin 4, IL-4, BSF1, Binetrakin, BCGF1, B-cell stimulatory factor 1, B-cell growth factor 1, BCDF

PRODUCT SPECIFICATION

Molecular Weight

17.2 kDa (150aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

The ED50 for this effect is less or equal to 0.5ng/ml. Measured in a cell proliferation assay using TF1 human erythroleukemic cells.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

Interleukin-4 (IL-4) is a pleiotropic cytokine that has many biological roles, including the stimulation of activated B-cell and T-cell proliferation, and the differentiation of naive helper T-cell to Th2 cells. Interleukin-4 is a co-stimulator of DNA-synthesis and induces the expression of class II MHC molecules on resting B-cells. It also enhances both secretion and cell surface expression of IgE and IgG1. Recombinant Interleukin-4 protein, fused to His-tag at N-terminus, was expressed in E. coli and was purified by conventional chromatography techniques, after refolding of the isolated inclusion bodies in a renaturation buffer.

Amino acid Sequence

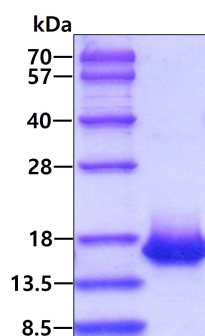
<MGSSHHHHHH SSGLVPRGSH> MHKCDITLQE IIKTLNSLTE QKTLCTELTV TDIFAASKNT TEKETFCAA TVLRQFYSHH
EKDTRCLGAT AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLKI MREKYSKCSS

General References

Van Kimmenade A., et al. (1988) Eur J Biochem. 173(1):109-14.
Yokota T., et al. (1986) Proc. Natl. Acad. Sci. uSA. 83(16):5894-8.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.