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Recombinant human IL-4 protein

Catalog Number: ATGP3421

PRODUCT INFORMATION

Expression system
E.coli

Domain
25-153aa

UniProt No.
P05112

NCBI Accession No.
NP_000580.1

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
15 kDa (130aa)

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

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

Biological Activity
Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range ≤0.6ng/ml.

Tag
Non-Tagged

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.

BACKGROUND

Recombinant human IL-4 protein

Catalog Number: ATGP3421

Description

IL4, also known as Interleukin 4 isoform1, 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. IL4 is a co-stimulator of DNA-synthesis and is 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 human IL4, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

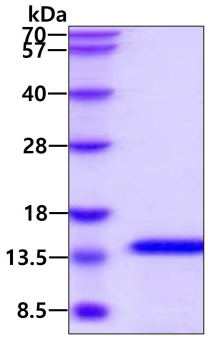
MHKCDITLQE IIKTLNSLTE QKTLCTELTV TDIFAASKNT TEKETFCRAA TVLRQFYSHH EKDTRCLGAT AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLKTI MREKYSKCSS

General References

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

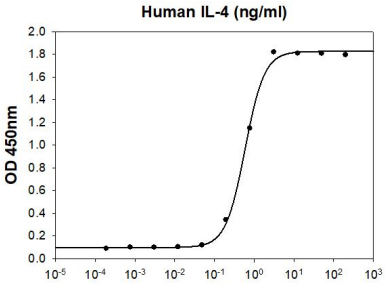
DATA

SDS-PAGE



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

Biological Activity



Human IL-4 stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED50 range ≤0.6 ng/ml.