BioVision For research use only

Interleukin-4 (IL-4), Rat Recombinant

CATALOG #: 4139-10 10 μg

4139-50 50 μg 4139-1000 1 mg

ALTERNATE NAMES: BCGF, BCDF, B cell stimulating factor, BSF-1,

Lymphocyte stimulatory factor 1, IL-4, MGC79402,

Binetrakin, Pitrakinra.

SOURCE: E. coli

SEQUENCE: Amino acids residue 25-147 (122 amino acids) of rat IL-4

PURITY: >98% by SDS-PAGE

MOL. WEIGHT: 14.10 kDa

ENDOTOXIN CONTENT: <0.01EU/ug purified protein by LAL testing

FORM: Lyophilized powder.

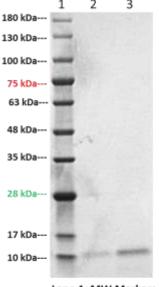
FORMULATION: Lyophilized without any additives

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1 mg/ml. The solution can be diluted into other aqueous buffers and stored at 4°C for 1 week or –20°C for future use.

STORAGE CONDITIONS: The lyophilized IL-4 is best-stored desiccated below 0°C. Reconstituted IL-4 should be stored at working aliquots at -20°C.

DESCRIPTION: IL4 is a pleiotropic cytokine and a potent lymphoid cell growth factor that stimulates the growth and survivability of certain B cells and T cells. It is produced by activated T cells and 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. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

BIOLOGICAL ACTIVITY: The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of con A-activated rat spleen cells is \leq 1.5 ng/ml, corresponding to a specific activity of \geq 6.6 x 10⁵ units/mg.



Lane 1: MW Markers Lane 2: IL-4 (2ug) Lane 3: IL-4 (4ug) SDS-PAGE (4-20%) of Recombinant Human Irisin: Recombinant IL-4 Protein loaded under reducing conditions and stained with Coomassie Blue. The protein has a predicted MW of ~ 14.10 kDa

RELATED PRODUCTS:

- IL-4, human recombinant (Cat # 4137-10, -50, -1000)
- IL-4, murine recombinant (Cat # 4138-10, -1000)
- IL-4, rat recombinant (Cat # 4139-10, -1000)
- IL-4. Human CellExp™. human recombinant (Cat # 6463-10, -50)
- IL-4 Antibody (Cat # 5137-200)

FOR RESEARCH USE ONLY! Not to be used in humans.

