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Datasheet

IL4 (Human) Recombinant Protein

Catalog Number: P5823

Regulation Status: For research use only (RUO)

Product Description: Human IL4 (130 a.a.) full-length recombinant protein with His tag expressed in Barley grain (*Hordeum vulgare*).

Host: Plants

Theoretical MW (kDa): 17.2

Applications: Func, SDS-PAGE, WB-Re (See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Form: Lyophilized

Preparation Method: Barley grain (*Hordeum vulgare*) expression system

Purification: Chromatography

Concentration: 100 ug/mL

Purity: > 95% by SDS-PAGE

Endotoxin Level: Endotoxin level is less than 0.005ng per ug protein (0.05EU/ug) as measured by turbidimetric kinetic assay

Activity: The bioactivity is determined by the cell proliferation assay for IL4 for dose-dependent cell proliferation of human TF-1 cells. The ED50 value for this effect is typically < 0.3 ng/mL, corresponding to a specific activity > 3.3×1066 units/mg. Optimal concentration should be determined for specific applications and cell lines.

Storage Buffer: Lyophilized from PBS, pH7,2.

Storage Instruction: Store at -20°C on dry atmosphere. After reconstitution with sterile water to a concentration of no less than 100 ug/mL, store at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Aliquot to avoid repeated freezing and thawing.

Entrez GenelD: 3565

Gene Symbol: IL4

Gene Alias: BCGF-1, BCGF1, BSF1, IL-4, MGC79402

Gene Summary: The protein encoded by this gene is a pleiotropic cytokine produced by activated T cells. This cytokine 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 5g, with this gene particularly close to IL13. This gene, 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. [provided by RefSeq]