

## IL 4 Rhesus Macaque

**Description:**IL-4 Rhesus Macaque Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 129 amino acids and having a molecular mass of 14.9kDa. The IL4 Rhesus Macaque is purified by proprietary chromatographic techniques.

**Catalog #:**CYPS-179

**Synonyms:**Interleukin-4, IL-4, B-cell stimulatory factor 1, BSF-1, Lymphocyte stimulatory factor 1, IL4.

For research use only.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:**HNCHIALREI IETLNSLTEQ KTLCTKLTIT DILAASKNTT EKETFCAAT  
VLRQFYSHHE KDTRCLGATA QQFHRHKQLI RFLKRLDRNL WGLAGLNSCP VKEANQSTLE  
DFLERLKTIM REKYSKCSS.

**Purity:**Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Formulation:**

Lyophilized from a 0.2

**Stability:**

Lyophilized Interleukin-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. Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized Interleukin-4 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Introduction:**

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.

**Biological Activity:**

The ED50 as determined by the dose-dependent stimulation of TF1 cells is less than 0.2ng/ml, corresponding to a specific activity of >5.0

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