

Active Recombinant Human IL4 protein

Cat. No. IL4-10H Lot. No. (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant Human IL4 was expressed in E. coli. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 129 amino acids |
| Form | Lyophilized from a 0.2 µ filtered concentrated solution in PBS, pH 7.4. |
| Bio-activity | Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using human TF-1 cells is less than 0.2 ng/ml, corresponding to a specific activity of > 5.0 × 10 ⁶ IU/mg. |
| Molecular Mass | Approximately 15.0 kDa, a single non-glycosylated polypeptide chain containing 129 amino acids. |
| AA Sequence | HKCDITLQEI IKTLNSLTEQ KTLCTELTVT DIFAASKNTT EKETFCAAT VLRQFYSHHE KDTRCLGATA QQFHRHKQLI RFLKRLDRNL WGLAGLNSCP VKEANQSTLE NFLERLKTIM REKYSKCSS |
| Endotoxin | Less than 1.0 EU/g of rHuIL-4 as determined by LAL method. |
| Purity | > 98 % by SDS-PAGE and HPLC analyses. |

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Storage

This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 centigrade to -70 centigrade. Avoid repeated freeze/thaw cycles.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name

IL4 interleukin 4 [[Homo sapiens](#)]

Official Symbol

IL4

Synonyms

IL4; interleukin 4; interleukin-4; B cell growth factor 1; B_cell stimulatory factor 1; BCGF 1; BCGF1; BSF1; IL 4; lymphocyte stimulatory factor 1; MGC79402; binetrakin; pitrakinra; IL-4; BSF-1; BCGF-1;

Gene ID

3565

mRNA Refseq

[NM_000589](#)

Protein Refseq

[NP_000580](#)

MIM

147780

UniProt ID

[P05112](#)

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|----------------------------|--|
| Chromosome Location | 5q23-q31 |
| Pathway | Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Asthma, organism-specific biosystem; Asthma, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; CD40/CD40L signaling, organism-specific biosystem; |
| Function | cytokine activity; growth factor activity; interleukin-4 receptor binding; protein binding; |

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