

Active Recombinant Human IL3 Protein (133 aa)

Cat. No. IL3-097I Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL3 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	133
Description	Interleukin 3 is a pleiotropic factor produced primarily by activated T cells that can stimulate the proliferation and differentiation of pluripotent hematopoietic stem cells as well as various lineage committed progenitors. In addition, IL-3 also affects the functional activity of mature mast cells, basophils, eosinophils and macrophages. Because of its multiple functions and targets, it was originally studied under different names, including mast cell growth factor P-cell stimulating factor, burst promoting activity, multiclonal stimulating factor, thy-1 inducing factor and WEHI-3 growth factor. In addition to activated T cells, other cell types such as human thymic epithelial cells, activated murine mast cells, murine keratinocytes and neurons/astrocytes can also produce IL-3. At the amino acid sequence level, mature human and murine IL-3 share only 29% sequence identity. Consistent with this lack of homology, IL-3 activity is highly species-specific and human IL-3 does not show activity on murine cells.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by the dose-dependant stimulation of the proliferation of human TF-1 cells is less than 0.1

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	ng/mL, corresponding to a Specific Activity of 1.0×10^7 IU/mg.
Molecular Mass	Approximately 15 kDa, a single non-glycosylated polypeptide chain containing 133 amino acids.
AA Sequence	APMTQTTSLKTSWVNCNMIDEIITHLKQPPLPLLDFFNNLNGEDQDILMENNLRRPNL EAFNRAVKSLQNASAIESILKNLLPCLPLATAAPTRHPIHIKGDWNEFRRLTFYLKT LENAQAQQTTLSLAIF
Endotoxin	Less than 1 EU/mg of rHuIL-3 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analyses.
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 to -70 centigrade. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.
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 IL3 interleukin 3 (colony-stimulating factor, multiple) [Homo sapiens]

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Official Symbol	IL3
Synonyms	IL3; interleukin 3 (colony-stimulating factor, multiple); interleukin-3; hematopoietic growth factor; IL 3; mast cell growth factor; MCGF; MGC79398; MGC79399; MULTI CSF; multilineage colony stimulating factor; P cell stimulating factor; mast-cell growth factor; P-cell stimulating factor; P-cell-stimulating factor; multilineage-colony-stimulating factor; multipotential colony-stimulating factor; IL-3; MULTI-CSF;
Gene ID	3562
mRNA Refseq	NM_000588
Protein Refseq	NP_000579
MIM	147740
UniProt ID	P08700

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