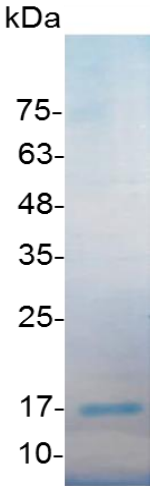
PRODUCT INFORMATION

IL-3 (Interleukin-3), Human

v. 231001

Catalog number	C01005-5UG / C01005-20UG / C01005-100UG
Package	5 μg / 20 μg / 100 μg
Description	Interleukin 3 is an interleukin, a type of biological signal (cytokine) that can improve the body's natural response to disease as part of the immune system. It acts by binding to the interleukin-3 receptor. Interleukin 3 stimulates the differentiation of multipotent hematopoietic stem cells into myeloid progenitor cells or, with the addition of IL-7, into lymphoid progenitor cells. In addition, IL-3 stimulates proliferation of all cells in the myeloid lineage (granulocytes, monocytes, and dendritic cells), in conjunction with other cytokines, e.g., Erythropoietin (EPO), Granulocyte macrophage colony-stimulating factor (GM-CSF), and IL-6. It is secreted by basophils and activated T cells to support growth and differentiation of T cells from the bone marrow in an immune response.
Source	*Escherichia coli*
Sequence	MAPMTQTTSLKTSWVNCSNMIDEIITHLKQPPLPLLDFNNLNGEDQDILMENNL RRPNLEAFNRAVKSLQNASAIESILKNLLPCLPLATAAPTRHPIHIKDGDWNEFR RKLTFYLKTLENAQAQQTTLSLAIF with polyhistidine tag at the C-terminus
Endotoxin level	<0.1 EU per 1 μg of the protein by the LAL method.
Activity	Measure by its ability to induce TF-1 cells proliferation. The ED_{50} for this effect is <0.15 ng/mL. The specific activity of recombinant human IL-3 is approximately >1.2 x 10^6 IU/mg.
Purity	>98% as determined by SDS-PAGE.
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	This product is stable after storage at: • -20°C for 12 months in lyophilized state from date of receipt. • -20°C or -80°C for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.



SDS-PAGE analysis of recombinant human IL-3

For research use only.

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