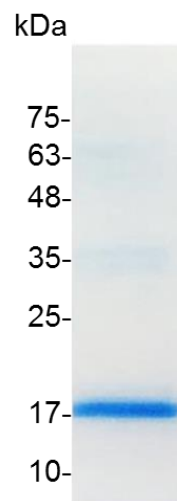


## PRODUCT INFORMATION

**IL-3 (Interleukin-3), Mouse**

v. 240801

<b>Catalog number</b>	C02005-5UG / C02005-20UG / C02005-100UG
<b>Package</b>	5 µg / 20 µg / 100 µg
<b>Description</b>	<p>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.</p>
<b>Source</b>	<i>Escherichia coli</i>
<b>Sequence</b>	<p>MDTHRLTRTLNCSSIVKEIIGKLPEPELKTDDGPSLRNKSFRRVNLSKVFESQG          EVDPEDRYVIKSNLQKLNCLPTSANDSALPGVFIRDLDLDFRKKLRFYMHVHLND          LETVLTSRPPQPASGSVSPNRGTVEC with polyhistidine tag at the C-terminus</p>
<b>Endotoxin level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Activity</b>	<p>Measure by its ability to induce NFS-60 cells proliferation. The ED<sub>50</sub> for this effect is &lt;85 pg/mL. The specific activity of recombinant mouse IL-3 is approximately &gt;1x 10<sup>7</sup> IU/mg.</p>
<b>Purity</b>	<p>&gt;95% as determined by SDS-PAGE analysis.          &gt;95% as determined by SEC-HPLC.</p>
<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Reconstitution</b>	<p>It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.</p>
<b>Stability &amp; Storage</b>	<p>This product is stable after storage at:</p> <ul style="list-style-type: none"> <li>-20°C for 12 months in lyophilized state from date of receipt.</li> <li>-20°C or -80°C for 1 month under sterile conditions after reconstitution.</li> </ul> <p>Avoid repeated freeze/thaw cycles.</p>



SDS-PAGE analysis of recombinant mouse IL-3

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