

## Recombinant Human Interleukin-3 Biotin conjugated (rh IL-3 Biotin)

**Introduction:** Rh IL-3 is a potent growth promoting cytokine. This cytokine is a species specific colony stimulating factor which stimulates colony formation of megakaryocytes, neutrophils, and macrophages from bone marrow cultures. Produced by T cells, mast cells and eosinophils, IL-3 enhances thrombopoieses, phagocytosis and antibody-mediated cellular cytotoxicity. Its ability to activate monocytes suggests that IL-3 may have additional immunoregulatory roles. Many of the IL-3 activities depend upon co-stimulation with other cytokines. It is involved in a variety of cell activities such as cell growth, differentiation and apoptosis. IL-3 has been also shown to possess neurotrophic activity and may be associated with neurological disorders.

**Source:** *Escherichia Coli*.

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation:** 0.2 µm filtered protein solution in PBS pH 7.2.

**Solubility:** Vial should be centrifuged before opening! Reconstitute in sterile endotoxin free water to a concentration not less than 100 µg/ml.

**Stability:** Lyophilized rh IL-3 Biotin although stable at room temperature for 3 weeks, should be stored desiccated below -18° C . Upon reconstitution rh IL-3 Biotin should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Purity:** 95% (verified by SDS-PAGE / silver stain)

**Endotoxicity:** The endotoxin level is less than 1 EU / µg determined by LAL method.

**Amino Acid Sequence:** APMTQTTPLK TSWVNCNMI DEIITHLKQP PLPLDFNNL NGEDQDILME  
NNLRRPNLEA FNRAVKSLQN ASAIESILKN LLPCLPLATA APTRHPIHIK DGDWNEFRRK LTFYKLTLEN  
AQAQQTTLSL AIF

**Biological Activity:** The ED<sub>50</sub> as determined by dose-dependent stimulation of TF-1 cells is < 1 ng/ml, corresponding to a specific activity of 1,000,000 IU/mg.

<i>small</i>	2 µg	Cat.N°	1134B0032
<i>medium</i>	10 µg	Cat.N°	1134B0033
<i>large</i>	50 µg	Cat.N°	1134B0035

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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