



## Human IL-3

### Human Interleukin-3, recombinant

Synonyms: IL3, IL-3, MCGF, MULTI-CSF.

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

Size	Order#	Lot#	Expiry Date
2 µg	1510.950.002		
10 µg	1510.950.010		
50 µg	1510.950.050		
100 µg	1510.950.100		
250 µg	1510.950.250		
500 µg	1510.950.500		
1 mg	1510.950.199		

Please enquire for bulk quantities and other vial sizes.

### Description

Recombinant human IL-3 is a 15.0 kDa globular protein containing 133 amino acid residues. It is a hematopoietic growth factor that promotes the survival, differentiation and proliferation of committed progenitor cells of the megakaryocyte, granulocyte-macrophage, erythroid, eosinophil, basophil and mast cell lineages. 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. IL-3 is species-specific, variably glycosylated cytokine.

- **Biological Activity**  $\geq 2 \times 10^6$  units/mg
- **Source** *E. coli*
- **Purity**  $\geq 98\%$  (SDS-PAGE, silver stained)
- **Endotoxin Level**  $< 0.1$  ng per µg (IEU/µg) of rh IL-3

### Biological Activity

The ED<sub>50</sub> of  $\leq 0.5$  ng/ml was determined by the dose-dependent stimulation of the proliferation of TF-1 cells. It corresponds to a specific activity of  $\geq 2 \times 10^6$  units/mg.

### Reconstitution

The lyophilized IL-3 should be reconstituted in water to a concentration not less than 100µg/ml. This solution can be diluted into other buffered solutions or stored at -20 °C for future use.

### Amino Acid Sequence

MAPMTQTTPPL KTSWVNCNSM IDEIITHLQK PPLPLLDFFNN LNGEDQDILM ENNLRRPNLE AFNRAVKSLQ  
 NASAIESILK NLLPCLPLAT AAPTRHPIHI KDGDWNEFRR KLTFYKLTLE NAQAQQTTLS LAIF

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.