

## IL-3 Protein, Human, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms:	interleukin-3;MULTI-CSF;IL-3;IL3;IL-3MGC79398;MCGF
Protein Construction:	Ala20-Phe152
Species:	Human
Expression Host:	E. coli
Accession:	P08700
Molecular Weight:	16.9 kDa (predicted) same as Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Biotinylated Human IL-3, His Tag at 1µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Human IL-3 R alpha, hFc Tag with the EC50 of 24.4ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

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. This CSF induces granulocytes, macrophages, mast cells, stem cells, erythroid cells, eosinophils and megakaryocytes.

Reference

Interleukin-3 amplifies acute inflammation and is a potential therapeutic target in sepsis]]. Science, 2015, 347 (6227):1260-1265.

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