

Human IL-3 Protein

Cat. No. IL3-HE401

Description

Source	Recombinant Human IL-3 Protein is expressed from E.coli with His tag and Avi tag at the N-Terminus. It contains Ala20-Phe152.
Accession	P08700
Molecular Weight	The protein has a predicted MW of 16.9 kDa same as Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

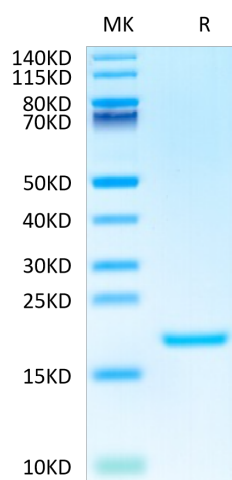
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

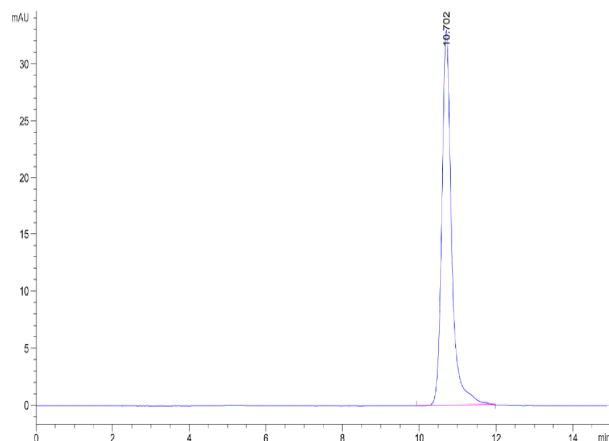
Assay Data

Tris-Bis PAGE



Human IL-3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



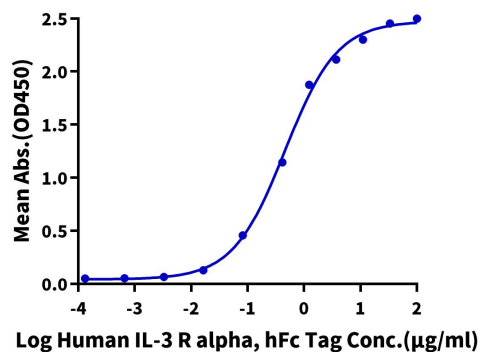
The purity of Human IL-3 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human IL-3, His Tag ELISA

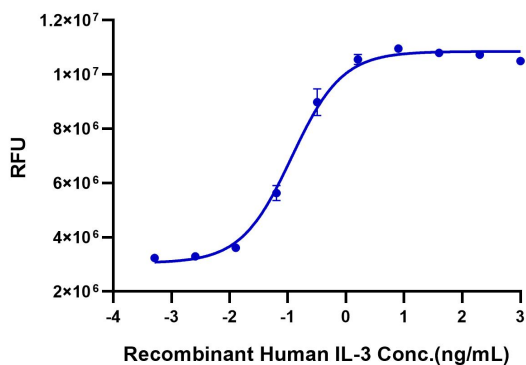
0.5µg Human IL-3, His Tag Per Well



Immobilized Human IL-3, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human IL-3 R alpha, hFc Tag with the EC50 of 0.46µg/ml determined by ELISA (QC Test).

Cell Based Assay

Recombinant Human IL-3 Bioactivity



Measured in a cell proliferation assay using TF1 human erythroleukemic cells. The ED50 for this effect is < 0.2 ng/mL.