

## Recombinant Human IL-3 Protein

RPCB1121

### Description

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This high-purity Recombinant Human IL-3 Protein is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

### Protein Information

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<b>SKU:</b>	RPCB1121
<b>Contents:</b>	10 µg, 20 µg, 50 µg, 100 µg Bradford Reagent: 1 vial (2ml)
<b>Synonyms:</b>	IL3, IL-3, MCGF, MULTI-CSF
<b>Species:</b>	Human
<b>Gene ID:</b>	3562
<b>Expression Host:</b>	HEK293 cells
<b>Tags:</b>	C-His
<b>Calculated MW:</b>	15.93 kDa
<b>Observed MW:</b>	20-35 kDa
<b>Purification:</b>	≥ 95 % as determined by SDS-PAGE.
<b>Endotoxin:</b>	< 1 EU/µg of the protein by LAL method.
<b>Formulation:</b>	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
<b>Bio- Activity:</b>	1. Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED 50 for this effect is 1.5-6 ng/mL. 2. Recombinant Human TPO(50 ng/mL, RPCB0396), IL-3(15 ng/mL), IL-6(15 ng/mL, RPCB0260) and IL-11(15 ng/mL, RPCB0246) induce hematopoietic

**Manufacturers Statement - This final kit system is assembled and quality-released by Assay Genie Limited**

stem and progenitor cells to differentiate into megakaryocytes. After 6 days, the induction of CD41/42+ megakaryocytes was successful.

## Preparation & Storage

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**Shipping:** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

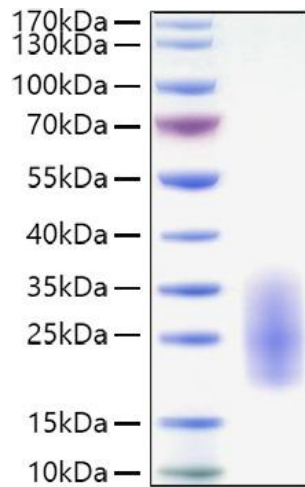
**Storage:** Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.  
Store Bradford Reagent at Room Temperature for 1 Year.

**Reconstitution:** Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

**Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol.

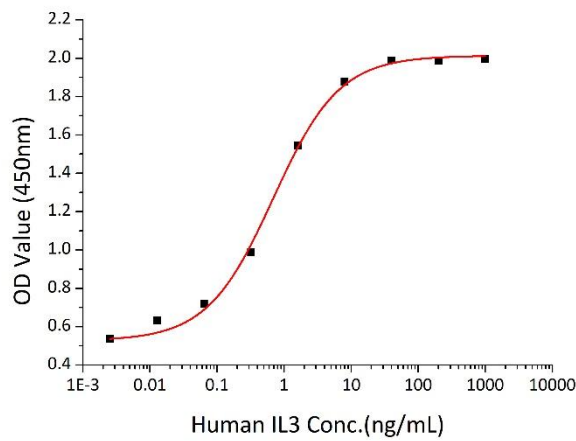
## Validation Data

### Image



### Description

Recombinant Human IL-3 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human IL3 promotes the proliferation of TF 1 human erythroleukemic cells. The ED50 for this effect is 0.345-1.38 ng/mL, corresponding to a specific activity of  $7.25 \times 10^5 \sim 2.90 \times 10^6$  units/mg.