

## Human recombinant IL-2 protein, GMP

Catalog Number: PROTP60568-7

### Overview

Product Name	Human recombinant IL-2 protein, GMP
Description	Interleukin-2 (IL-2) is a 15.5 kDa four bundle, immuno-modulatory cytokine which is expressed predominately by antigen-simulated CD4+ T cells, CD8+ T cells, natural killer (NK) cells, and dendritic cells (DC). IL-2 plays a fundamental role in promoting NK cell proliferation, cytotoxicity, and B cells differentiation. IL-2 modulate T cell differentiation programs, promoting na?ve CD4+ T cell differentiation into T helper-1 (Th1) and T helper-2 (Th2) cells.
Size	100ug,1mg
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	Lyophilized from a 0.2 um filtered solution of PBS, pH 8.0.

### Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Purity

>98% as determined by SDS-PAGE analysis.

### Molecular weight

The protein has a calculated MW of 16.4 kDa. The protein migrates as 13 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Measure by its ability to induce proliferation in CTLL-2 cells. The ED<sub>50</sub> for this effect is 5 x 10<sup>2</sup> IU/mg, which is calibrated against the human IL-2 WHO International Standard (NIBSC code: 86/500).

### Endotoxin

<0.05 EU per 1 ug of the protein by the LAL method.

### **Amino Acid Sequence**

MAPTSSSTKKTQLQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSET  
TFMCEYADETATIVEFLNRWITFCQSIISTLT with polyhistidine tag at the C-terminus.

### **Reconstitution**

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 0.5 mg/mL and incubate the stock solution at RT for at least 20 min to ensure sufficient re-dissolved.

## Usage

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