

## Mouse IL-7, His Tag, E. coli

Catalog NumberLDG030PMEPackage5 μg / 20 μg / 100 μg / 1000 μg / Customizedpackage

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### **Specifications**

**Species of Origin** 

Mouse

**Affinity Tag** 

His Tag (C-term)

**Purity** 

>98% as determined by SDS-PAGE analysis.

Activity

Measured in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBMC). The ED $_{50}$  for this effect is <0.2 ng/mL. The specific activity of recombinant mouse IL-7 is > 5 x  $10^6$  IU/mg.

**Form** 

Lyophilized

**Expression System** 

Escherichia coli

**Storage Buffer** 

Lyophilized from a 0.2  $\mu m$  filtered solution of PBS, pH 7.4.

Molecular weight

The protein has a calculated MW of 15.8 kDa. The protein migrates as 16 kDa under reducing condition (SDS-PAGE analysis).

**Endotoxin Level** 

<0.1 EU per 1  $\mu g$  of the protein by the LAL method.

**Background** 

Tainan Headquarter

**Innovation & Research Center** 

**CLD Center** 



#### **Background**

Interleukin-7 (IL-7) is a multipotent cytokine belonged to one of the members of IL-2 superfamily. IL-7 has diverse effects on the hematopoietic and immune regulations. IL-7 is a trophic factor that is necessary for both B cell and T cell proliferation and development. In addition, it presents potential antitumor effects in tumors such as glioma, melanoma, lymphoma, leukemia, prostate cancer, and glioblastoma.

# Uniprot ID

#P10168

#### **Synonyms**

Interleukin-7

#### **Sequence Note**

Glu26-Ile154

#### Instruction

#### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile  $H_2O$  to a concentration not less than 200  $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient redissolved.

#### **Stability & Storage**

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

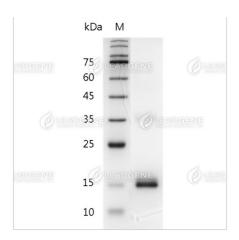
Avoid repeated freeze/thaw cycles.

#### **Shipping**

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

#### **Image**





SDS-PAGE analysis of recombinant mouse IL-7.

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