

# Mouse IL-7 Protein

Cat. No. IL7-MM107

## Description

<b>Source</b>	Recombinant Mouse IL-7 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Glu26-Ile154.
<b>Accession</b>	P10168
<b>Molecular Weight</b>	The protein has a predicted MW of 16.51 kDa. Due to glycosylation, the protein migrates to 28-38 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.1 EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

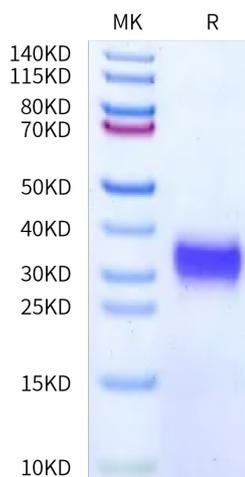
<b>Formulation</b>	Supplied as 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at $-80^{\circ}\text{C}$ . Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Interleukin-7 (IL7) plays a nonredundant role in T cell survival and homeostasis, which is illustrated in the severe T cell lymphopenia of IL7-deficient mice, or demonstrated in animals or humans that lack expression of either the IL7R $\alpha$  or  $\gamma$  c chain, the two subunits that constitute the functional IL7 receptor.

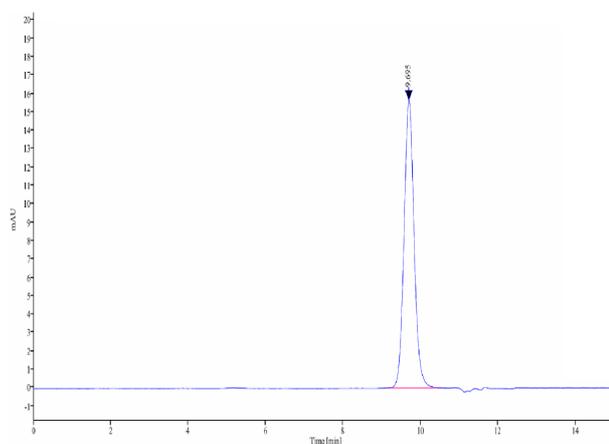
## Assay Data

### Bis-Tris PAGE



Mouse IL-7 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



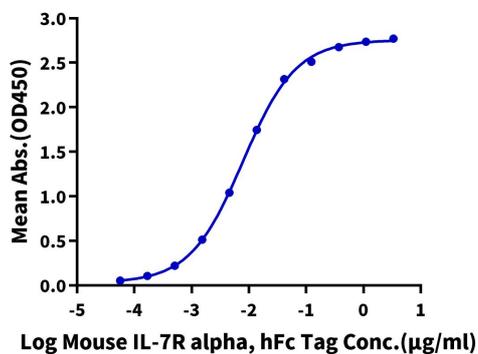
The purity of Mouse IL-7 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Mouse IL-7, His Tag ELISA**

0.1µg Mouse IL-7, His Tag Per Well



Immobilized Mouse IL-7, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Mouse IL-7R alpha, hFc Tag with the EC50 of 7.9ng/ml determined by ELISA.