

# Mouse IL-12 Protein

Cat. No. IL1-MM112

## Description

<b>Source</b>	Recombinant Mouse IL-12 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Arg23-Ala215(IL-12A)&Met23-Ser335(IL-12B).
<b>Accession</b>	P43431(IL-12A)&P43432(IL-12B)
<b>Molecular Weight</b>	The protein has a predicted MW of 22.80 kDa(IL-12A)&35.79 kDa(IL-12B). Due to glycosylation, the protein migrates to 25-30 kDa(IL-12A)&45-55 kDa(IL-12B) based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg 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>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Interleukin 12 (IL-12) is a pleiotropic cytokine that plays an essential role in Th1-type immune response against cancer, a condition where cells in a particular part of the body grow and reproduce uncontrollably.

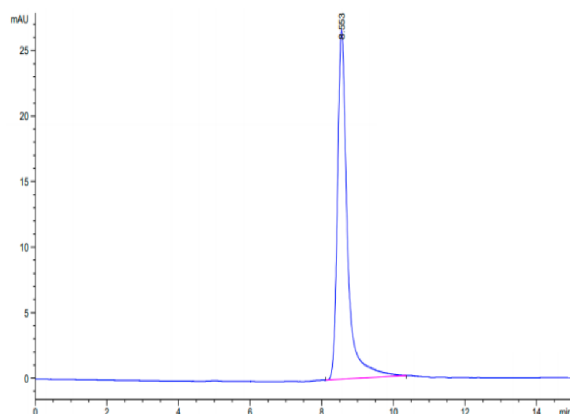
## Assay Data

### Bis-Tris PAGE



Mouse IL-12 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

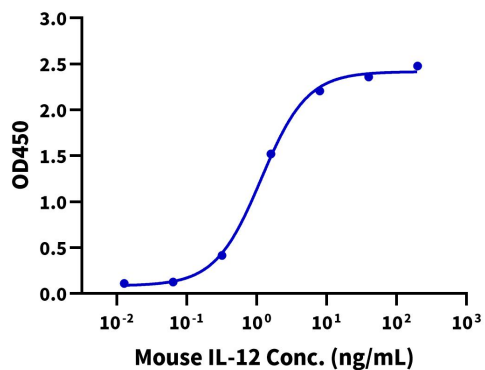


The purity of Mouse IL-12 is greater than 95% as determined by SEC-HPLC.

Assay Data

Cell Based Assay

Recombinant Mouse IL-12 Bioactivity



Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED50 for this effect is 0.5 - 2 ng/mL.