

Rev04  
Update: Jan,19,2024

**DATASHEET**

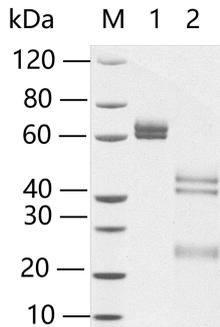
# IL-12, Mouse

Cat. No.: Z03211

## Product Introduction

<b>Species</b>	Mouse
<b>Protein Construction</b>	<div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;">IL-12 p35 (Arg23-Ser215) Accession # P43431</div> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;">IL-12 p40 (Met23-Ser335) Accession # P43432</div>
<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	ED <sub>50</sub> < 0.15 ng/ml, measured in a cell proliferation assay using 2D6 cells.
<b>Expression System</b>	CHO
<b>Apparent Molecular Weight</b>	27~29 kDa (p35), 45~50 kDa (p40), on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O or PBS up to 100 μg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Examples



Lane 1: 2  $\mu$ g of IL-12, Mouse, non-reducing (NR)

Lane 2: 2  $\mu$ g of IL-12, Mouse, reducing (R)

> 95% as analyzed by SDS-PAGE

## Background

**Target Background :** Interleukin-12 (IL-12), also known as NKSF, TCMF, CLMF and TSF, is a heterodimeric cytokine composed of p35 and p40 subunits. It is produced by monocytes, macrophages, B cells and dendritic cells in response to bacterial lipopolysaccharides and intracellular pathogens. IL-12 signals through the IL-12 receptor complex, which is comprised of IL-12 R $\beta$ 1 and IL-12 R $\beta$ 2. IL-12 induces the proliferation and activation of hematopoietic stem cells, natural killer cells and T- cells. It is indispensable during the development of Th1 cells, leading to the production of IFN-gamma and IL-2.

**Synonyms :** IL12; NKSF; TCMF; CLMF; TSF; CTL maturation factor; Cytotoxic lymphocyte maturation factor

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**

生产商：南京金斯瑞生物科技有限公司 江苏省南京市江宁区科学园雍熙路28号

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China