

## CHASELECTION

## Recombinant Mouse IL-11, Tag Free

货号(Catalog Number): CY149FXXXX(L)

**别名(synonym):** IL11; IL-11; IL-11Oprelvekin;  
interleukin 11; interleukin-11; Oprelvekin

**来源(Source):** Human embryonic kidney cell,  
HEK293-derived mouse IL-11 protein

**蛋白结构 (Structure):** 该蛋白不含标签

**基因 ID:** P47873

## 氨基酸序列

Gly23-Leu199

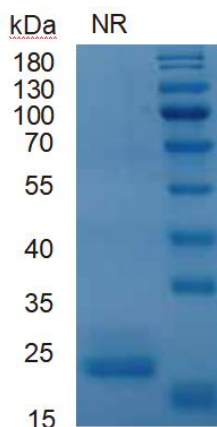
## 分子量大小(MW)

19.1 kDa

## 纯度 (Purity)

&gt; 95%, determined by SDS-PAGE

## SDS-PAGE



4 ug/lane protein was resolved with SDS-PAGE under non-reducing (NR) and reducing (R) conditions and visualized by Coomassie Blue staining.

## 制剂(Formulation)

Solution protein.

Dissolved in sterile PBS buffer.

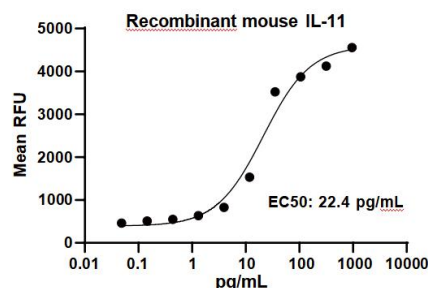
This solution can be diluted into other aqueous buffers.  
Centrifuge the vial prior to opening.

版本号: IN-PA-60-00

## 内毒素含量 (Endotoxin)

&lt;0.010 EU per 1 ug of the protein by the LAL method

## 生物活性 (Bioactivity)



Recombinant mouse IL-11 stimulates cell proliferation of the T11 mouse plasmacytoma cells

## 储存与运输(Storage)

Avoid repeated freeze-thaw cycles.

It is recommended that the protein be aliquoted for optimal storage.

36 months from date of receipt, -20 to -70 °C as supplied.

## 产品背景介绍 (Production)

IL-11 (Interleukin 11) is a pleiotropic cytokine in the IL-6 family, which also includes LIF, CNTF, Oncostatin M, Cardiotrophin-1, IL-27 and IL-31. In humans, IL-11 was also independently discovered as an adipogenesis inhibitory factor (AGIF). The mouse IL-11 cDNA encodes a 199 amino acid (aa) precursor, which generates a 178 aa, 19 kDa mature unglycosylated protein. Mature mouse IL-11 shares 88%, 97%, and 89% aa sequence identity with human, rat and canine IL-11, respectively. IL-11 is secreted by osteoblasts, synoviocytes, fibroblasts, chondrocytes, intestinal myofibroblasts, and trophoblasts, among other cell types. It is found in the plasma mainly during inflammation, such as that associated with viral infection, cancer, or inflammatory arthritis, and is considered to be primarily anti-inflammatory. It stimulates hematopoiesis and thrombopoiesis, regulates macrophage differentiation, and confers mucosal protection in the intestine. It has also been found to enhance T cell polarization toward Th2, promote B cell IgG production, increase osteoclast



bone absorption, protect endothelial cells from oxidative stress, and regulate epithelial proliferation and apoptosis. IL-11 synergizes with several other cytokines to produce these effects, and its effects overlap with those of IL-6. IL-11 receptor activation requires formation of a complex of two IL-11 molecules with two molecules of the ligand-binding IL-11 R alpha subunit and two molecules of the ubiquitously expressed cell signaling beta subunit, gp130.

