

# Mouse IL-11 / interleukin 11 Protein

Catalog Number: 50117-MNCE



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

IL-11

### Protein Construction:

A DNA sequence encoding the mouse Il11 (NP\_032376.1) (Pro22-Leu199) was expressed.

**Source:** Mouse

**Expression Host:** E. coli

## QC Testing

**Purity:** ≥ 90 % as determined by SDS-PAGE.

### Bio Activity:

**Measured in a cell proliferation assay using T1165 mouse plasmacytoma cells. The ED<sub>50</sub> for this effect is typically 3-15 ng/ml.**

### Endotoxin:

< 1.0 EU per µg protein as determined by the LAL method.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Pro

### Molecular Mass:

The recombinant mouse Il11 consists 178 amino acids and predicts a molecular mass of 19.2 kDa.

### Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

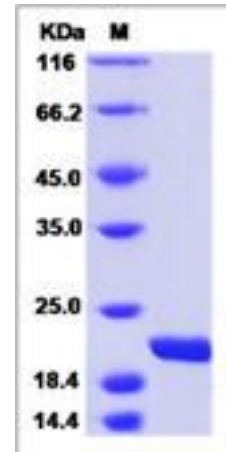
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

IL11 is a multifunctional cytokine first isolated in 1990 from bone marrow-derived stromal cells. It is a key regulator of multiple events in hematopoiesis, most notably the stimulation of megakaryocyte maturation. IL11 is also known under the names adipogenesis inhibitory factor (AGIF) and oprelvekin. IL11 can improve platelet recovery after chemotherapy-induced thrombocytopenia, induce acute phase proteins, modulate antigen-antibody responses, participate in the regulation of bone cell proliferation and differentiation and could be used as a therapeutic for osteoporosis. IL11 stimulates the growth of certain lymphocytes and, in the murine model, stimulates an increase in the cortical thickness and strength of long bones. As a signaling molecule, IL11 has a variety of functions associated with its receptor interleukin 11 receptor alpha; such functions include placentation and to some extent of decidualization.

## References

1. McKinley D. et al., 1992, Genomics. 13 (3): 814-9. 2. Paul SR. et al., 1990, Proc Natl Acad Sci. 87 (19): 7512-6. 3. Kawashima I. et al., 1991, FEBS Lett. 283 (2): 199-202.

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