

For Research Use Only

# Recombinant Mouse IL-27 protein (rFc Tag)



Catalog Number: Eg3374

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Mouse IL-27B Tyr19-Pro228 (Accession# Q35228) +linker+Mouse IL-27A Phe29-Ser234 (Accession# Q8K316) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
50498(IL-27B), 246779(IL-27A)

**Accession:**  
O35228(IL-27B), Q8K316(IL-27A)

**Predicted Molecular Mass:**  
77.2 kDa

**SDS-PAGE:**  
75-90 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**  
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

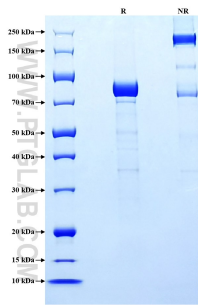
IL-27 is a heterodimeric cytokine composed of two subunits: IL-27a and IL-27b. IL-27 acts on various cell types, including T cells, B cells, macrophages, dendritic cells, natural killer (NK) cells and non-hematopoietic cells. IL-27 plays a critical role in the early regulation of T helper type 1 initiation, and enhances proliferation of naive CD4<sup>+</sup>T cells and naive B cells. It, however, also exerts anti-inflammatory functions by inhibiting the development of Th17 cells and inducing IL-10 producing type 1 regulatory T cells. IL-27 is a potentially promising cytokine for therapeutic approaches on various human diseases.

## References

- 1.Pflanz S. et al. (2002) *Immunity*. 16:779-90.
- 2.Villarino AV. et al. (2006) *J Immunol*. 176:237-47.
- 3.Diveu C. et al. (2009) *J Immunol*. 182:5748-56.
- 4.Hunter CA. et al. (2012) *Immunity*. 37:960-9.
- 5.Batten M. et al. (2010) *J Exp Med*. 207:2895-906.

## Synonyms

## Selected Validation Data



Purity of Recombinant Mouse IL-27 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

T: 027-87531629

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.