

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/μg 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 μm 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+ 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.

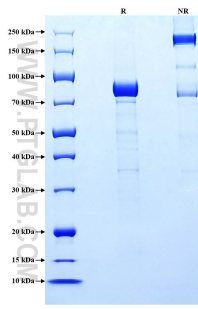
Synonyms

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

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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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.