

Recombinant Mouse IL-27/IL-27A&IL-27B Protein

Catalog No.: RP00772

Sequence Information

Species **Gene ID**
Mouse 246779&50498

Swiss Prot **Tags**
O35228&Q8K3I6 C-6×His

Synonyms

Interleukin-27 subunit alpha, IL27-A, p28, IL27, IL27a, Interleukin-27 subunit beta, Ebi3, IL-27 subunit beta, IL-27B, IL27b

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as determined by SDS-PAGE.

Calculated MW **Observed MW**
48.80 kDa 60-70 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

IL-27 is a heterodimeric cytokine which belongs to the IL-6/IL-12 family of long type I cytokines. It is expressed on monocytes, endothelial cells and dendritic cells. IL-27 is an early product of activated antigen-presenting cells and drives rapid clonal expansion of naive CD4(+) T cells and plays a role in the early regulation of Th1 cells initiation which drives efficient adaptive immune response. IL-27 has an antiproliferative activity on melanomas through WSX-1/STAT1 signaling. Thus, IL-27 protein may be an attractive candidate as an antitumor agent applicable to cancer immunotherapy. IL-27 reveals to be a potent inhibitor of TH17 cell development and of IL-17 production. Indeed IL27 alone is also able to inhibit the production of IL17 by CD4 and CD8 T-cells. IL-27 has also an effect on cytokine production. It suppresses proinflammatory cytokine production such as IL2, IL4, IL5 and IL6 and activates suppressors of cytokine signaling such as SOCS1 and SOCS3. Apart from suppression of cytokine production, IL-27 also antagonizes the effects of some cytokines such as IL6 through direct effects on T-cells. Another important role of IL-27 is its antitumor activity as well as its antiangiogenic activity with activation of production of antiangiogenic chemokines such as IP-10 and MIG.

Basic Information

Description

Recombinant Mouse IL-27 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Tyr19-Pro228&Phe29-Ser234) of mouse IL-27 (Accession #O35228&Q8K3I6) fused with a 6×His tag at the C-terminus.

Activity

Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED₅₀ for this effect is 0.24-0.94 ng/mL, corresponding to a specific activity of 1.06×10⁶~4.17×10⁶ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

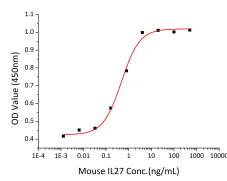
Contact

☎ | 400-999-6126

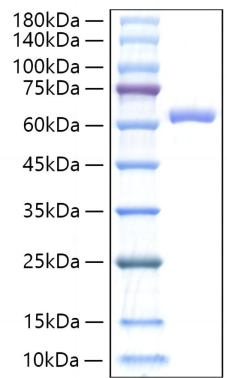
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Validation Data



Recombinant Mouse IL-27/IL-27A&IL-27B Protein promote the proliferation of TF-1 Human erythroleukemic cells. The ED₅₀ for this effect is 0.24-0.94 ng/mL, corresponding to a specific activity of 1.06×10⁶~4.17×10⁶ units/mg.



Recombinant Mouse IL-27/IL-27A&IL-27B Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.