

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

Catalog No.: RP00639 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	246778 □10148	Q8NEV9&Q1 4213

Tags

N-His□NO-tag

Synonyms

IL27A&IL27B;Interleukin-27 subunit
alpha&Interleukin-27 subunit beta;IL-27
subunit alpha&IL-27 subunit
beta;IL-27A&IL-27B

Product Information

Source	Purification
HEK293 cells	> 95% by SDS- PAGE.

Calculated MW **Observed MW**

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial 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.

Contact

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Background

IL-27 protein is a member of the IL-6 superfamily, which is expressed on monocytes, endothelial cells, and dendritic cells. IL-27 protein is also referred to as the IL-12 p35-related protein, p28, is one subunit of a heterodimeric cytokine complex, and associates with another subunit EBI3, and IL-12 p40-related protein (IL-27B). IL-27 protein is an early product of activated antigen-presenting cells and drives the 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 protein 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.

Basic Information

Description

Recombinant Human IL-27/IL-27A&IL-27B Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Phe29-Pro243 □Arg21-Lys229□of IL-27A (Accession #NP_663634.2) fused with a His tag at the N-terminus and IL-27B (Accession #NP_035692.2) fused with no Tag.

Bio-Activity

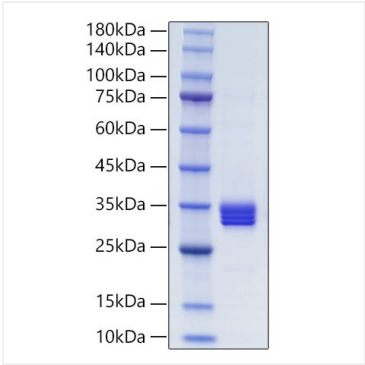
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

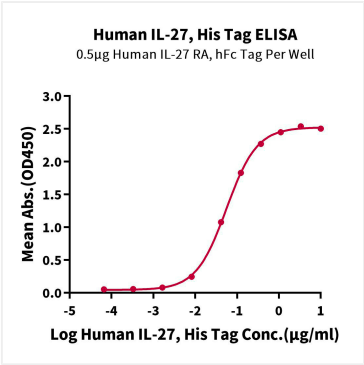
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

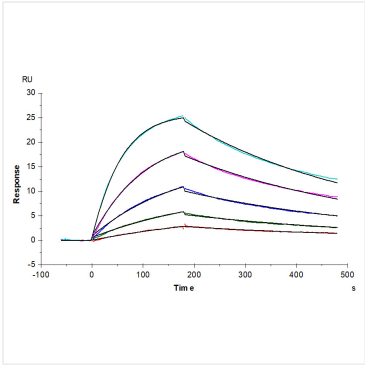
Validation Data



Recombinant Human IL-27/IL-27A&IL-27B Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-35 kDa.



Immobilized Human IL-27 RA, hFc Tag at 5 µg/mL (100 µL/well) on the plate. Dose response curve for Human IL-27, His Tag with the EC₅₀ of 55.9ng/mL determined by ELISA (QC Test).



Human IL-27 RA, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-27, His Tag with an affinity constant of 3.58 nM as determined in SPR assay (Biacore T200).