

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

Catalog No.: RP00639

Sequence Information

Species **Gene ID**
Human 246778 & 10148

Swiss Prot **Tags**
Q8NEV9&Q14213N-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 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
50.6 kDa 54-64 kDa

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.

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.

Activity

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.

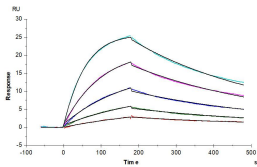
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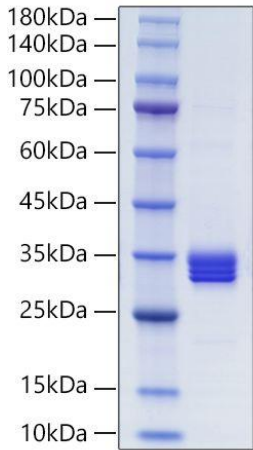
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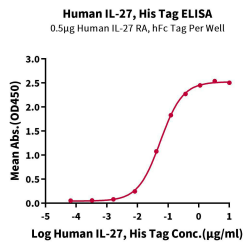
Validation Data



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).



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



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).