

Recombinant Human IFN-lambda 3/IL-28B Protein

Catalog No.: RP00219

Recombinant

2 Publications

Sequence Information

Species	Gene ID	Swiss Prot
Human	282617	Q8IZI9

Tags

C-His

Synonyms

IFNL3;IFN-lambda-3;IFN-lambda-4;IL-28B;IL-28C;IL28B;IL28C

Product Information

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

Calculated MW	Observed MW
23.39 kDa	23 kDa

Endotoxin

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

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, 500mM NaCl, pH 7.4. Contact us for customized product form or formulation.

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

Interleukin-28B (IL-28B) also known as Interferon lambda-3 and IFN-lambda-3, belongs to the type III interferon family of cytokines. IL-28B is a cytokine with immunomodulatory activity. It functions in Up-regulating MHC class I antigen expression. IL-28B displays potent antiviral activity and antitumor activity. This cytokine serves as ligand for the heterodimeric class II cytokine receptor composed of IL10RB and IL28RA. IL-28B is able to increase the percentage of splenic CD8+ T cells in vaccinated animals and have higher antigen-specific cytolytic .

Basic Information

Description

Recombinant Human IFN-lambda 3/IL-28B Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Val196) of human IFNL3/IL28B/Interleukin-28B (Accession #NP_742151.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human IL28B at 2 μg/mL (100 μL/well) can bind Recombinant Human IL10RB with a linear range of 0.25-1 μg/mL.

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.

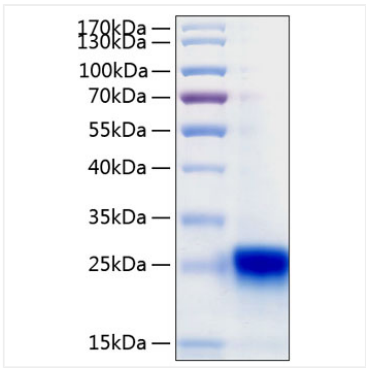
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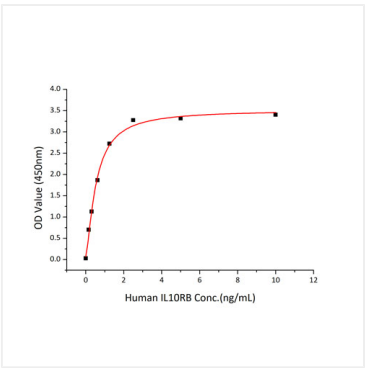
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Validation Data



Recombinant Human IFN-lambda 3/IL-28B Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant Human IL28B at 2 $\mu\text{g/mL}$ (100 μL /well) can bind Recombinant Human IL10RB with a linear range of 0.25-1 $\mu\text{g/mL}$.