

RP00273

Leader in Biomolecular Solutions for Life Science



Recombinant Human IL-17RA/CD217 Protein

Catalog No.: RP00273

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	23765	Q96F46

Tags

C-His

Synonyms

CANDF5; CD217; CDw217; IL-17RA;
IL17R; IMD51;
hIL-17R;IL17RA;CD217;CDw217;IL-17R
A;IL17R;IMD51;hIL-17R

Product Information

Source Purification

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

Endotoxin

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

Formulation

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

Reconstitution

Background

Interleukin 17A (IL17A) is a proinflammatory cytokine secreted by activated T-lymphocytes. It is a potent inducer of the maturation of CD34-positive hematopoietic precursors into neutrophils. This transmembrane protein (interleukin 17A receptor; IL17RA) is a ubiquitous type I membrane glycoprotein that binds with low affinity to interleukin 17A. Interleukin 17A and its receptor play a pathogenic role in many inflammatory and autoimmune diseases such as rheumatoid arthritis. Like other cytokine receptors, this receptor likely has a multimeric structure.

Basic Information

Description

Recombinant Human IL-17RA/CD217 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Leu33-Trp320) of human IL17RA (Accession #NP_055154.3) fused with a 6×His tag at the C-terminus.

Bio-Activity

1. Measured by its ability to inhibit IL-17A induced IL-6 secretion by Hela cells. The ED₅₀ for this effect is 0.02-0.1 μg/mL in the presence of 10 ng/mL recombinant human IL 17A. 2. Measured by its binding ability in a functional ELISA. Immobilized Recombinant human IL17RA, His Tag at 2 μg/mL (100 μL/well) can bind Recombinant human IL-17A, His Tag with a linear range of 31.25-65 ng/mL.

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.

Operational Notes

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

Storage

Store at -20°C
Avoid repeated freeze/thaw cycles.

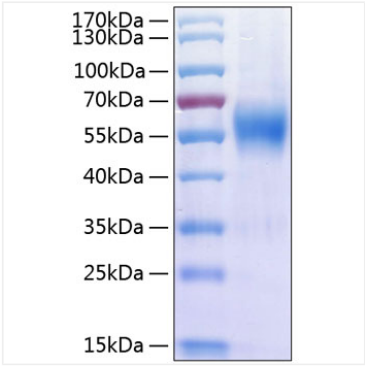
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Contact

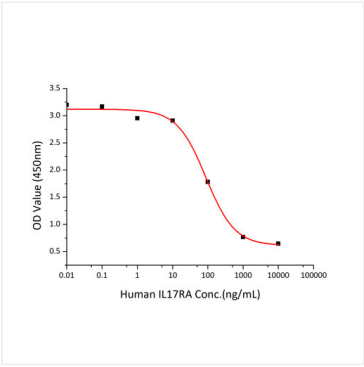


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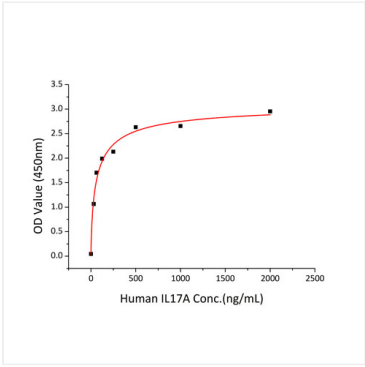
Validation Data



Recombinant Human IL-17RA/CD217 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human IL17RA inhibits IL-17A induced IL-6 secretion by Hela cells. The ED₅₀ for this effect is 0.02–0.1 µg/mL in the presence of 10 ng/mL recombinant human IL-17A.



Immobilized Recombinant human IL17RA , His Tag at 2 µg/mL (100 µL/well) can bind Recombinant human IL-17A,His Tag with a linear range of 31.25-65ng/mL.