

Recombinant Human IL-17RA/CD217 Protein

Catalog No.: RP00273 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 23765 096F46

Tags

C-His

Synonyms

CANDF5; CD217; CDw217; IL-17RA;

IL17R; IMD51;

hIL-17R;IL17RA;CD217;CDw217;IL-17RA;I

L17R;IMD51;hIL-17R

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

34.29 kDa 55-65 kDa

Endotoxin

< 0.1 EU/ μ g 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

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 stablizer (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

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 $6\times His$ tag at the C-terminus.

Bio-Activity

1.Measured by its ability to inhibit IL-17A induced IL-6 secretion by Hela cells. The ED $_{\rm 50}$ for this effect is 0.02 0.1 $\mu g/mL$ 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 $\mu g/mL$ (100 $\mu L/well$) can bind Recombinant human IL-17A,His Tag with a linear range of 31.25-65 ng/mL.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

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

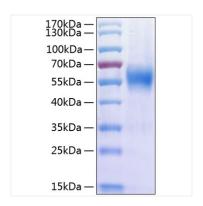
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

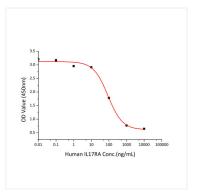
Operational Notes

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

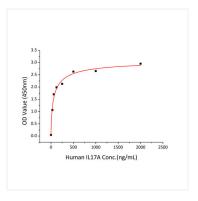
Validation Data



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 ED $_{\rm 50}$ for this effect is 0.02-0.1 $\mu g/mL$ in the presence of 10 ng/mL recombinant human IL-17A.



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