RP00212

Leader in Biomolecular Solutions for Life Science

www.abclonal.com

Recombinant Human IL-17A/CTLA-8 Protein

Catalog No.: RP00212 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	3605	Q16552

Tags
C-His

Synonyms
IL17A; CTLA-8; CTLA8; IL-17; IL-17A; IL17;
interleukin-17A;CTLA-8;CTLA8;IL-17;IL-17A;IL17

Product Information

Source	Purification
HEK293 cells	≥ 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
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

www.abclonal.com

Background

IL17, also known as IL17a and CTLA8, is a is a 15-20 kDa glycosylated cytokine which belongs to the IL-17 family. The IL-17 family of cytokines includes six members, IL-17/IL-17A, IL-17B, IL-17C, IL-17D, IL-17E/IL-25, and IL-17F, which are produced by multiple cell types. IL17A promotes protective mucosal and epidermal inflammation in response to microbial infection .It induces chemokine production, neutrophil influx, and the production of antibacterial peptides .IL17A additionally enhances the production of inflammatory mediators by rheumatoid synovial fibroblasts and contributes to TNF alpha induced shock . In contrast, it can protect against the progression of colitis by limiting chronic inflammation . IL17A encourages the formation of autoreactive germinal centers and exacerbates the onset and progression of experimental models of autoimmunity .

Basic Information

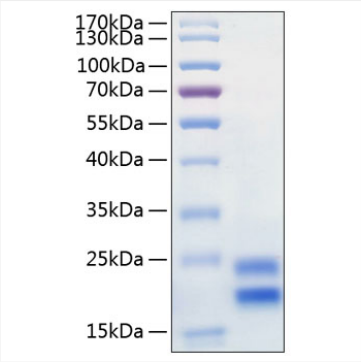
Description
Recombinant Human IL-17A/CTLA-8 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile20-Ala155) of human IL-17A (Accession #NP_002181.1) fused with a 6×His tag at the C-terminus.

Bio-Activity
1.Measured by its binding ability in a functional ELISA. Immobilized Recombinant human IL17RA at 2 μg/mL (100 μL/well) can bind Recombinant human IL-17A, the EC_{50} of human IL-17A is 32.5-130 ng/mL.|2.Measured by its ability to induce IL-6 secretion by Hela cells. The ED_{50} for this effect is 2.64-10.58 ng/mL, corresponding to a specific activity of 9.45×10^{4}~3.79×10^{5} units/mg.

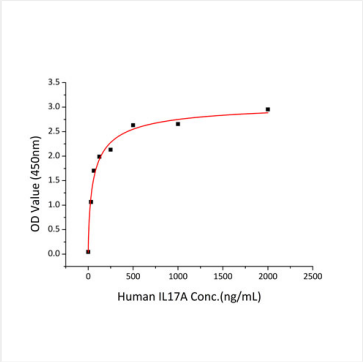
Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

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

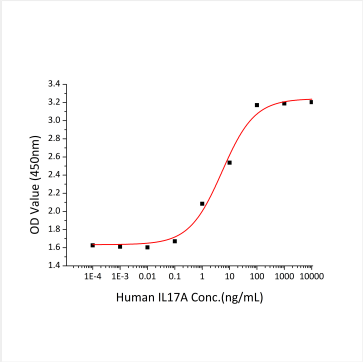
Validation Data



Recombinant Human IL-17A/CTLA-8 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant human IL17RA , His Tag at 2 μg/mL (100 μL/well) can bind Recombinant human IL-17A,The EC_{50} of human IL-17A is 32.5-130 ng/mL.



Recombinant Human IL-17A induce IL-6 secretion by Hela cells. The ED_{50} for this effect is 2.64-10.58 ng/mL, corresponding to a specific activity of 9.45×10^{4}~3.79×10^{5} units/mg.