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Recombinant Mouse IL-17A/CTLA-8 Protein

Catalog No.: RP01460 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	16171	Q62386-1

Tags
C-His

Synonyms
Il17;Ctla8;IL-17;Ctla-8;IL17A;IL-17A

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Calculated MW	Observed MW
15.82 kDa	16-24 kDa

Endotoxin
<0.1EU/μg

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

IL17, also known as IL17a, is a cytokine that belongs to the IL-17 family. Cytokines are proteinaceous signaling compounds that are major mediators of the immune response. They control many different cellular functions including proliferation, differentiation, and cell survival/apoptosis but are also involved in several pathophysiological processes including viral infections and autoimmune diseases. Cytokines are synthesized under various stimuli by a variety of cells of both the innate (monocytes, macrophages, dendritic cells) and adaptive (T- and B-cells) immune systems. 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. IL-17 regulates the activities of NF-kappaB and mitogen-activated protein kinases. This cytokine can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of IL-17 are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis, and multiple sclerosis.

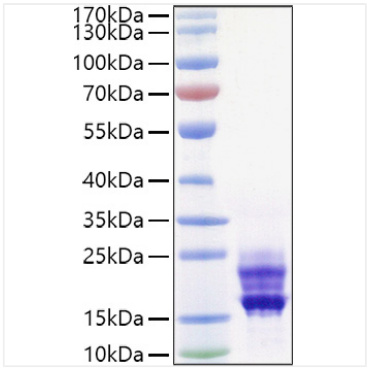
Basic Information

Description
Recombinant Mouse IL-17A/CTLA-8 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala26-Ala158) of mouse IL-17A/CTLA-8 (Accession #NP_034682.1.) fused with a 6×His tag at the C-terminus.

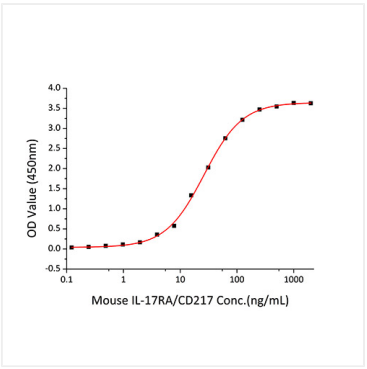
Bio-Activity
Measured by its binding ability in a functional ELISA. Immobilized Mouse IL-17A/CTLA-8 at 2 μg/mL (100 μL/well) can bind Mouse IL-17RA/CD217 with a linear range of 0.1-26 ng/mL.Measured by its ability to induce IL-6 secretion by NIH-3T3 mouse embryonic fibroblast cells in the presense of 2 ng/mL TNFα(Catalog: RP01071).The ED_{50} for this effect is 0.26-1.04 ng/mL, corresponding to a specific activity of 9.62×10^{5}~3.85×10^{6} 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.

Validation Data



Recombinant Mouse IL-17A/CTLA-8 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 16-24kDa.



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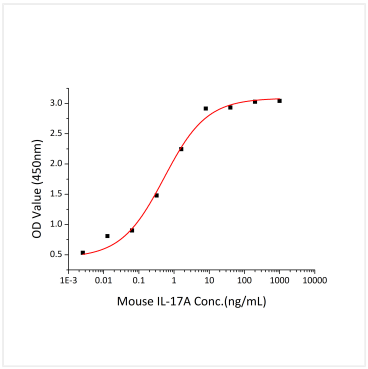

Recombinant Mouse IL-17A/CTLA-8 Protein induce IL-6 secretion by NIH-3T3 mouse embryonic fibroblast cells in the presense of 2 ng/mL TNFα(Catalog: RP01071).The ED_{50} for this effect is 0.26-1.04 ng/mL, corresponding to a specific activity of 9.62×10^5~3.85×10^6 units/mg.