Recombinant Mouse IL-17A/CTLA-8 Protein

Catalog No.: RP01460

Sequence Information

Species
Mouse

Gene ID
16171

Swiss Prot
Q62386-1

Tags
C-His

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

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
15.82 kDa

Observed MW
16-24 kDa

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.

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.

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.

Activity
1.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.2.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.

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.

Storage
Store at -20℃

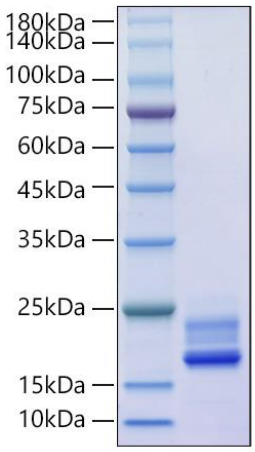
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

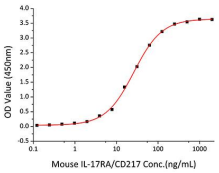
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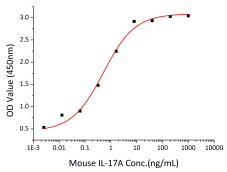
Validation Data



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



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.



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.

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