

Recombinant Mouse IL17A Protein (Ala26-Ala158)

Cat. No. IL17A-848M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL17A Protein (NP_034682.1) (Ala26-Ala158) was produced by Yeast expression system.
Species	Mouse
Source	Yeast
ProteinLength	Ala26-Ala158
Description	IL17, also known as IL17a, is a cytokine 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.

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Predicted N Terminal	Ala 26
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant mouse IL17A consists of 133 amino acids and predicts a molecular mass of 15 kDa.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	IL17a interleukin 17A [<i>Mus musculus</i>]
Official Symbol	IL17A
Synonyms	IL17A; interleukin 17A; interleukin-17A; IL17; Ctl8; IL-17; Ctl8; IL-17A;

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Gene ID	16171
mRNA Refseq	NM_010552
Protein Refseq	NP_034682
UniProt ID	Q544E6

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