

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

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| Gene Name | IL17a interleukin 17A [<i>Mus musculus</i>] |
| Official Symbol | IL17A |
| Synonyms | IL17A; interleukin 17A; interleukin-17A; IL17; CtlA8; IL-17; CtlA-8; IL-17A; |

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

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