

## Active Recombinant Mouse Il17a Protein (133 aa)

**Cat. No.** Il17a-253l    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant murine IL-17A is a 15-20kDa glycosylated cytokine of 133 amino acid polypeptide chain that plays an important role in antimicrobial and chronic inflammation. IL-17 exhibits multiple biological activities on a variety of cells including the induction of IL-6 and IL-8 production in fibroblasts, the enhancement of surface expression of ICAM-1 in fibroblasts, activation of NF-κB and costimulation of T cell proliferation.                                                                                                                                          |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 133                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | Interleukin-17A, (also known as CTLA-8) is a T cell-expressed pleiotropic cytokine that exhibits a high degree of homology to a protein encoded by the ORF13 gene of herpesvirus Saimiri. cDNA clones encoding IL-17 have been isolated from activated rat, mouse and human T cells. IL-17 represents a family of structurally-related cytokines that share a highly conserved C-terminal region but differ from one another in their N-terminal regions and in their distinct biological roles. The six known members of this family, IL-17A through IL-17F, are secreted as homodimers. |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Bio-activity</b>     | Measured by its ability to induce IL-1a, IL-4 and IL-6 production by primary mouse splenocytes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 15-22 kDa, observed by reducing SDS-PAGE.                                                                                                                                                                                                                       |
| <b>AA Sequence</b>    | AAIIPQSSACPNTTEAKDFLQNVKVNLIKVFNSLGAKVSSRRPSDYLNIRSTSPWTLHRN<br>EDPDRYPSVIWEAQCRHQRCVNAEGKLDHHMNSVLIQQEILVLKREPESCPFTFRV<br>EKMLVGVGCTCVASIVRQAA                                                                                                                |
| <b>Endotoxin</b>      | < 0.2 EU/μg, determined by LAL method.                                                                                                                                                                                                                          |
| <b>Purity</b>         | > 95% as analyzed by SDS-PAGE.                                                                                                                                                                                                                                  |
| <b>Storage</b>        | Lyophilized recombinant Murine Interleukin-17A (IL-17A) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, recombinant murine IL-17A should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade. |
| <b>Storage Buffer</b> | Lyophilized after extensive dialysis against PBS.                                                                                                                                                                                                               |
| <b>Reconstitution</b> | Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/mL.                                                                                                                                                                                                        |

## GENE INFORMATION

|                        |                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">Il17a interleukin 17A [ Mus musculus ]</a>                                                                    |
| <b>Official Symbol</b> | <a href="#">Il17a</a>                                                                                                     |
| <b>Synonyms</b>        | IL17A; interleukin 17A; interleukin-17A; cytotoxic T-lymphocyte-associated antigen 8; Il17; Ctlα8; IL-17; Ctlα-8; IL-17A; |
| <b>Gene ID</b>         | <a href="#">16171</a>                                                                                                     |
| <b>mRNA Refseq</b>     | <a href="#">NM_010552</a>                                                                                                 |

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| Protein Refseq | NP_034682 |
|----------------|-----------|

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| UniProt ID | Q62386 |
|------------|--------|

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