

# Recombinant Full Length Human IL17A Protein, C-Flag-tagged

Cat. No. IL17A-903HFL    Lot. No. (See product label)

## SPECIFICATION

|                         |                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human IL17A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
|-------------------------|-----------------------------------------------------------------------------------------------------------------|

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| <b>Species</b> | Human |
|----------------|-------|

|               |                 |
|---------------|-----------------|
| <b>Source</b> | Mammalian Cells |
|---------------|-----------------|

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| <b>Description</b> | <p>This gene is a member of the IL-17 receptor family which includes five members (IL-17RA-E) and the encoded protein is a proinflammatory cytokine produced by activated T cells. IL-17A-mediated downstream pathways induce the production of inflammatory molecules, chemokines, antimicrobial peptides, and remodeling proteins. The encoded protein elicits crucial impacts on host defense, cell trafficking, immune modulation, and tissue repair, with a key role in the induction of innate immune defenses. This cytokine stimulates non-hematopoietic cells and promotes chemokine production thereby attracting myeloid cells to inflammatory sites. This cytokine also regulates the activities of NF-kappaB and mitogen-activated protein kinases and can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). IL-17A plays a pivotal role in various infectious diseases, inflammatory and autoimmune disorders, and cancer. High levels of this cytokine are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. The lung damage induced by the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is to a large extent, a result of the inflammatory response promoted by cytokines such as IL17A.</p> |
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 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                         |                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                     |
| <b>Molecular Mass</b>   | 15.1 kDa                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MTPGKTSLVSLLLLLSLEAIVKAGITIPRNP GCPNSEDKNFPRTVMVNLNIHNRNTNTN<br>PKRSSDYYNRS TSPWNLHRNEDPERYP SVIWEAKCRHLGCINADGNVDYHMNSVP<br>IQQEILVLRREPPHCPNSFRLEKILV<br>SVGCTCVTPIVHHVATRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                                                                              |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                             |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                                                                                  |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                                                                                         |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                                                                          |
| <b>Protein Families</b> | Druggable Genome, Secreted Protein                                                                                                                                                                        |
| <b>Protein Pathways</b> | Cytokine-cytokine receptor interaction                                                                                                                                                                    |
| <b>Full Length</b>      | Full L.                                                                                                                                                                                                   |

## GENE INFORMATION

|                  |                                                |
|------------------|------------------------------------------------|
| <b>Gene Name</b> | IL17A interleukin 17A [ Homo sapiens (human) ] |
|------------------|------------------------------------------------|

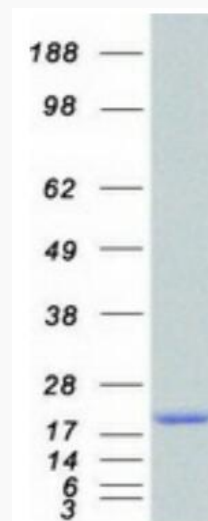
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|                 |                                           |
|-----------------|-------------------------------------------|
| Official Symbol | IL17A                                     |
| Synonyms        | IL17; CTLA8; IL-17; ILA17; CTLA-8; IL-17A |
| Gene ID         | 3605                                      |
| mRNA Refseq     | NM_002190.3                               |
| Protein Refseq  | NP_002181.1                               |
| MIM             | 603149                                    |
| UniProt ID      | Q16552                                    |



Coomassie blue staining of purified IL17A protein.