

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

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

SPECIFICATION

Product Overview

Recombinant Full Length Human IL17A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

Species

Human

Source

Mammalian Cells

Description

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.

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

GENE INFORMATION

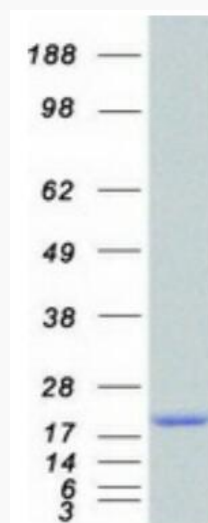
Gene Name	IL17A interleukin 17A [Homo sapiens (human)]
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Official Symbol	IL17A
Synonyms	IL17; CTLA8; IL-17; ILA17; CTLA-8; IL-17A
Gene ID	3605
mRNA Refseq	NM_002190.3
Protein Refseq	NP_002181.1
MIM	603149
UniProt ID	Q16552



Coomassie blue staining of purified IL17A protein.