

Active Recombinant Human IL17A

Cat. No. IL17A-333H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human IL17A (Q16552, 20 a.a.-134 a.a.) partial recombinant protein expressed in Escherichia coli.
Species	Human
Source	Human
Description	Interleukin-17A is a protein that in humans is encoded by the IL17A gene. The protein encoded by this gene is a proinflammatory cytokine produced by activated T cells. This cytokine 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 this cytokine are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis.
Sequence	I PTEIPTSALV KETLALLSTH RTLLIANETL RIPVPVHKNH QLCTEEIFQG IGTLESQTVQ GGTVERLFKN LSLIKKYIDG QKKKCGEERR RVNQFLDYLQ EFLGVMNTEW IIES
Theoretical MW (kDa)	16
Form	Lyophilized
Preparation Method	Escherichia coli expression system

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Purity	> 95% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED50 was determined by the dose-dependent proliferation of induction of IL-6 in primary human foreskin fibroblasts was found to be approximately 2 ng/mL., corresponding to a specific activity of < 5 x 10 ⁵ units/mg.
Application	SDS-PAGE
Storage Buffer	Lyophilized from PBS, pH 7.5
Storage	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.
Unitprot ID	Q16552
Pathways	Cytokine-cytokine receptor interaction

GENE INFORMATION

Gene Name	17A interleukin 17A [Homo sapiens]
Official Symbol	IL12B
Synonyms	IL17A; interleukin 17A; IL17; CTLA8; IL-17; IL-17A; toxic T-lymphocyte-associated antigen 8; ototoxic T-lymphocyte-associated protein 8; cytotoxic T-lymphocyte-associated serine esterase 8; interleukin 17 (cytotoxic T-lymphocyte-associated serine esterase 8)

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Gene ID	3605
mRNA Refseq	NM_002190
Protein Refseq	NP_002181
MIM	603149
Chromosome Location	6p12
Function	Induces stromal cells to produce proinflammatory and hematopoietic cytokines. Enhances the surface expression of the intracellular adhesion molecule-1 (ICAM-1) in fibroblasts.

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