

Product datasheet for **TP723780**

IL17 (IL17A) (NM_002190) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human interleukin 17A and 17F (IL17A / IL-17F) heterodimer
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Human IL-17A, the region of Ile20-Ala155, from gene Accession# NM_002190 and human IL-17F, the region of Arg31-Gln163, from gene Accession# AF384857
Tag:	Tag Free
Predicted MW:	30.6 kDa
Concentration:	lot specific
Purity:	>98%, as determined by Coomassie stained SDS-PAGE.
Buffer:	10 mM NaH ₂ PO ₄ , 300 mM NaCl, pH 7.2
Bioactivity:	The ED ₅₀ is 15-25 ng/ml, corresponding to a specific activity of 6.6 - 4 x 10 ⁴ units/mg. Under this assay the activity was comparable to other vendor's cytokine.
Endotoxin:	Less than 0.1 EU/μg (<0.01 ng/μg) protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	NP_002181
Locus ID:	3605
UniProt ID:	Q16552
RefSeq Size:	1859
Cytogenetics:	6p12.2
RefSeq ORF:	465
Synonyms:	CTLA-8; CTLA8; IL-17; IL-17A; IL17; ILA17



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Summary:

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. [provided by RefSeq, Sep 2020]

Protein Families:

Druggable Genome, Secreted Protein

Protein Pathways:

Cytokine-cytokine receptor interaction

Product images: