

## Product datasheet for PH318057

### IL17 (IL17A) (NM\_002190) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	IL17A MS Standard C13 and N15-labeled recombinant protein (NP_002181)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218057
Predicted MW:	17.5 kDa
Protein Sequence:	>RC218057 representing NM_002190 Red=Cloning site Green=Tags(s)  MTPGKTSLVSLLLLLSLEAIVKAGITIPRNP GCPNSEDKNFRTVMVNLNIHNRNTNTNPKRSSDYNNRS TSPWNLHRNEDPERYPSVIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLEKILV SVGCTCVTPIVHVA  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_002181</a>
RefSeq Size:	1859
RefSeq ORF:	465
Synonyms:	CTLA-8; CTLA8; IL-17; IL-17A; IL17; ILA17
Locus ID:	3605
UniProt ID:	<a href="#">Q16552</a>



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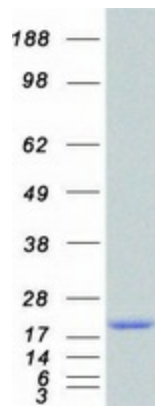
**Cytogenetics:** 6p12.2

**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:



Coomassie blue staining of purified IL17A protein (Cat# [TP318057]). The protein was produced from HEK293T cells transfected with IL17A cDNA clone (Cat# [RC218057]) using MegaTran 2.0 (Cat# [TT210002]).