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## Human Interleukin-17A/F Heterodimer (hIL-17A/F)

**For Research Use Only. Not for Use in Diagnostic Procedures.**

MW (kDa):	UniProt ID:	Entrez-Gene Id:
38	#Q96PD4, #Q16552	112744, 3605

### Background

IL-17A/F is a cystine-linked heterodimer of IL-17A and IL-17F (1,2). IL-17A/F is produced by Th<sub>17</sub> cells, and  $\gamma\delta$  T cells (1,2). IL-17A/F stimulates the production of pro-inflammatory cytokines and neutrophil chemoattractants, thereby functioning as a bridge between adaptive and innate immunity (1-3). Some research studies suggest that IL-17A/F may be involved in mucosal immunity against some bacterial infections and has a putative role in some autoimmune disorders (3,4). The receptor for IL-17A/F consists of a heterodimer of IL-17RA and IL-17RC and signaling through this receptor leads to the activation of the Erk1/2 and NF- $\kappa$ B pathways (1).

### Endotoxin

Less than 0.01 ng endotoxin/1  $\mu$ g hIL-17A/F.

### Purity

>98% as determined by SDS-PAGE of 6  $\mu$ g reduced (+) and non-reduced (-) recombinant hIL-17A/F. All lots are greater than 98% pure.

### Source / Purification

Recombinant human IL-17A/F (hIL-17A/F) is a heterodimer that is composed of hIL-17A Ile20-Ala155 (Accession# NP\_002181) linked to hIL-17F Arg31-Glu163 (Accession# NP\_443104) via the linker GGGSGGGSGGGSGGG. hIL-17A/F was expressed in human 293 cells at Cell Signaling Technology.

### Bioactivity

The bioactivity of recombinant hIL-17 A/F was determined by its ability to induce mouse IL-6 production by 3T3 MEFs WT. The ED<sub>50</sub> of each lot is between 50-200 ng/ml.

### Background References

1. Iwakura, Y. et al. (2011) *Immunity* 34, 149-62.
2. Chang, S.H. and Dong, C. (2007) *Cell Res* 17, 435-40.
3. Henry, T. et al. (2010) *J Immunol* 184, 3755-67.
4. Hu, Y. et al. (2010) *J Immunol* 184, 4307-16.

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