

Human IL-17F, Tag Free Protein

HA210716



Product name:	Human IL-17F, Tag Free
Species reactivity:	Human
Bio-Activity:	Testing in progress.
Protein construction description:	A DNA sequence encoding the human IL-17F protein (Q96PD4) (Arg 31-Gln 163) was expressed with tag free.

Background: Human IL-17A/F is an approximately 40 kDa, secreted, disulfide-linked heterodimeric glycoprotein comprised of two members of the IL-17 family of cytokines, IL-17A and IL-17F. Members of this family demonstrate a structural motif termed a cysteine knot that also characterizes a large superfamily of growth factors. Although most cysteine knot superfamily members use three intrachain disulfide bonds to create a knot, IL-17 family molecules generate the same structural form with only two disulfide links. Mature human IL-17A and IL-17F share 61% and 56% amino acid sequence identity with mouse IL-17A and IL-17F, respectively. They share 50% aa sequence identity with each other. IL-17A/F and the IL-17A and IL-17F homodimers are produced by IL-23 activated Th17 cells. The widely expressed receptors IL-17 RA and IL-17 RC form a heterodimer for the binding of IL-17A and IL-17F, as well as the heterodimeric IL-17A/F. IL-17A/F is a biologically active protein that induces chemokine production and airway neutrophilia with intermediate potency between IL-17A (most potent) and IL-17F (least potent). It is up-regulated in immune cells during inflammatory arthritis and contributes to disease severity.

Purity:	>95% as determined by SDS-PAGE.
Endotoxin:	Less than 1.0 EU per µg by the LAL method.
Fragment region:	IL-17F (31-163)
Source:	HEK293
Accession:	Q96PD4
Predicted molecular mass:	15 kD
Formulation:	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution:	Reconstitute at 250 µg/ml in sterile water.
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

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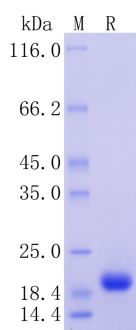


Fig1: Protein on SDS-PAGE under reducing (R) condition.

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