

**HumanKine<sup>®</sup> IL-17F (Recombinant Human)**



Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free
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**Product Description**

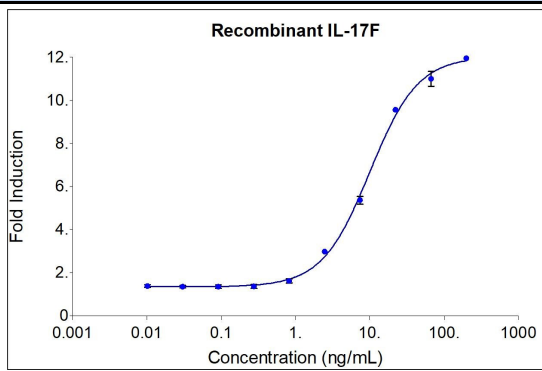
Animal-free Recombinant Human IL-17F is a homodimeric glycoprotein with an apparent molecular mass of 40 kDa. This cytokine is produced in a human cell expression system with serum-free, chemically defined media. Production in human 293 cells offers authentic glycosylation, which contributes to stability in cell growth media and other applications. IL-17 is commonly associated with allergic responses. IL-17 induces the production of many other cytokines (such as IL-6, G-CSF, GM-CSF, IL-1beta, TGF beta, and TNF alpha), chemokines (including IL-8, GRO alpha, and MCP-1), and prostaglandins (e.g., PGE2) from many cell types (fibroblasts, endothelial cell, epithelial cells, keratinocytes, and macrophages). The release of cytokines causes many functions, such as airway remodeling, a characteristic of IL-17 responses.

Alternative Names	Cytokine ML 1, IL 17F, IL17, IL-17, IL17F, IL-17F, interleukin 17F, ML 1, ML1
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived IL-17F protein
Species Reactivity	human

**Specifications**

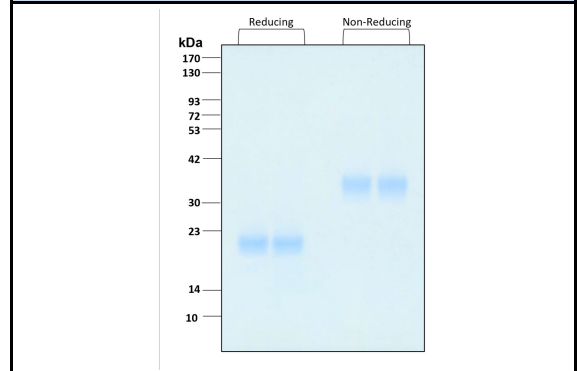
Test	Method	Specification
Activity	Dose-dependent induction of alkaline phosphatase production in a HEK293 reporter cell line.	4.5-22.5 ng/mL EC50
Molecular Mass	SDS-PAGE	40 kDa, homodimer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

**Activity Data**



Recombinant human IL-17F (HZ-1116) stimulates dose-dependent induction of alkaline phosphatase production in a HEK293 reporter cell line. Alkaline phosphatase production was assessed using pNPP as a chromogenic substrate. The EC50 was determined using a 4-parameter non-linear regression model. The EC50 value range is 4.5-22.5 ng/mL.

**SDS-PAGE**



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS, See Certificate of Analysis for details
Reconstitution	It is recommended to reconstitute the protein in sterile 1xPBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

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