

HumanKine[®] IL-17F (Recombinant Human)



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

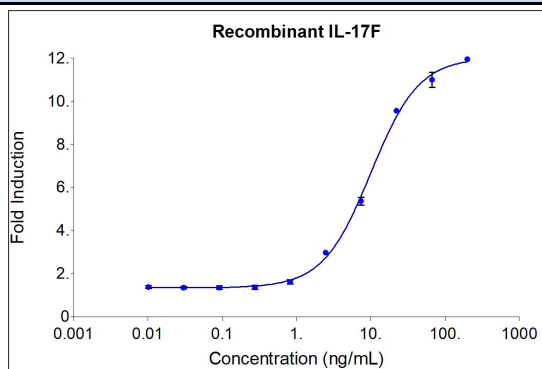
Animal-free Recombinant Human IL-17F is a homodimeric glycoprotein with an apparent molecular mass of 40 kDa. This cytokine is produced in a human cell expression system with serum-free, chemically defined media. Production in human 293 cells offers authentic glycosylation, which contributes to stability 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

Specifications

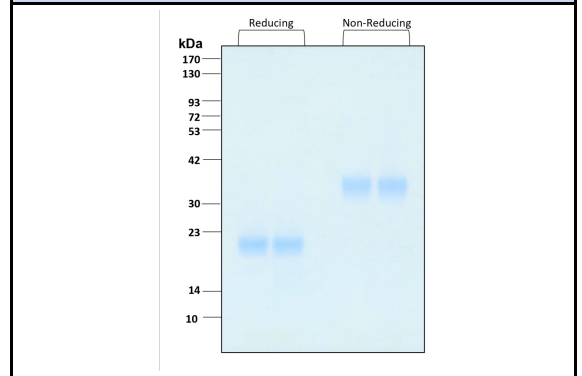
Test	Method	Specification
Activity	Dose-dependent induction of alkaline phosphatase production in a HEK293 reporter cell line.	4.5-22.5 ng/mL
Molecular Mass	SDS-PAGE	22 kDa reduced, 40 kDa non-reduced, homodimer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

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	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.

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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