

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



|                       |                      |          |                |
|-----------------------|----------------------|----------|----------------|
| Animal Component-Free | Human cell expressed | Tag-Free | Endotoxin Free |
|-----------------------|----------------------|----------|----------------|

**Product Description**

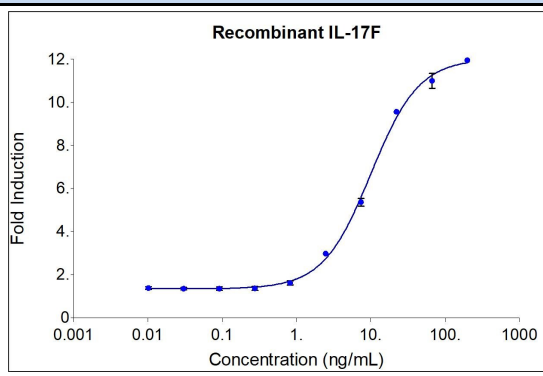
Animal-free Recombinant Human IL-17F is a homodimeric glycoprotein with an apparent molecular mass of 40 kDa. This cytokine is produced in a human cell expression system with serum-free, chemically defined media. Production in human 293 cells offers authentic glycosylation, which contributes to stability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

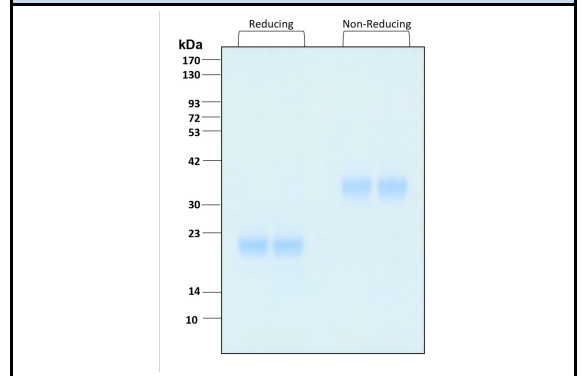
| Test           | Method  | Specification   |
|----------------|---|---|
| Activity       | Dose-dependent induction of alkaline phosphatase production in a HEK293 reporter cell line. | 4.5-22.5 ng/mL EC50   |
| Molecular Mass | SDS-PAGE  | 22 kDa reduced, 40 kDa non-reduced, homodimer, glycosylated |
| 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       | 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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