

Animal-Free IL-17F Protein, Human (His)

Cat. No.:	HY-P700107AF
Synonyms:	CANDF6; IL-17F; ML-1; ML1
Species:	Human
Source:	E. coli
Accession:	Q96PD4 (R31-Q163)
Gene ID:	112744
Molecular Weight:	Approximately 15.84 kDa

PROPERTIES

AA Sequence	<p> MRKIPKVGHT FFQKPESC VPGGSMKLDI GIINENQRVS MSRNIESRST SPWNYTVTWD PNRYPSEVVQ AQCRLGCIN A QG K E D I S M N S V P I Q Q E T L V V R R K H Q G C S V S F Q L E K V L V T V G C T C V T P V I H H V Q </p>
Biological Activity	Measure by its ability to induce IL-6 secretion in 3T3 cells. The ED ₅₀ for this effect is <20 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 20 mM sodium acetate, pH 4.0.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>IL-17F Protein serves as a key effector cytokine in the innate and adaptive immune systems, crucial for antimicrobial defense and tissue integrity maintenance. Operating through the IL17RA-IL17RC receptor complex, it triggers downstream activation of NF-kappa-B and MAPkinase pathways, leading to the transcriptional activation of various immune-related genes. Primarily associated with Th17 cells, IL-17F induces neutrophil activation, antimicrobial peptide production, and regulates immune tolerance. It forms homodimers and heterodimers with IL-17A, influencing diverse biological processes, from sympathetic innervation to microbiota regulation. The complex interactions and signaling pathways orchestrated by IL-17F underscore its multifaceted role in immune responses and cellular homeostasis.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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