

Product Data Sheet

Animal-Free IL-36 alpha/IL-1F6 Protein, Human (His)

Cat. No.:	HY-P700126AF
Synonyms:	IL-36 alpha; IL-36α; Interleukin-36 Alpha; FIL1 Epsilon; Interleukin-1 Epsilon; IL-1 Epsilon; Interleukin-1 Family Member 6; IL-1F6; IL36A; FIL1E; IL1E; IL1F6
Species:	Human
Source:	E. coli
Accession:	Q9UHA7 (K6-F158)
Gene ID:	14440
Molecular Weight:	Approximately 18.05 kDa

PROPERTIES					
TROPERTIES					
AA Sequence					
	MKIDTPQQGS	IQDINHRVWV	LQDQTLIAVP	RKDRMSPVTI	
	ALISCRHVET	LEKDRGNPIY	LGLNGLNLCL	МСАКVGDQРТ	
	LQLKEKDIMD	LYNQPEPVKS	F L F Y H S Q S G R	NSTFESVAFP	
	GWFIAVSSEG	GCPLILTQEL	GKANTTDFGL	TMLF	
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Biological Activity	Measure by its ability to induce IL-8 secretion in human PBMCs. The ED ₅₀ for this effect is <0.7 ng/mL.				
Appearance	Lyophilized powder.				
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Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.				
ronnaation	Lyophilized nonra solutio	in containing 1X r b3, pri 7.4			
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.				
Endotoxin Ecret		the Ene method.			
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/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 pr				
	recommended to freeze aliguots at -20°C or -80°C for extended storage.				
Shipping	Room temperature in continental US; may vary elsewhere.				

DESCRIPTION

Background

IL-36 alpha/IL-1F6 protein, a cytokine, binds to and signals through the IL1RL2/IL-36R receptor, activating the NF-kappa-B and MAPK signaling pathways in target cells, thereby contributing to a pro-inflammatory response. As part of the IL-36 signaling system, it is believed to be present in epithelial barriers and involved in local inflammatory responses, sharing similarities with the IL-1 system through the coreceptor IL1RAP. IL-36 alpha/IL-1F6 appears to play a crucial role in skin inflammatory responses by influencing keratinocytes, dendritic cells, and indirectly impacting T-cells, promoting tissue infiltration, cell maturation, and cell proliferation. In cultured keratinocytes, it induces the expression of various chemokines and pro-inflammatory cytokines, such as CCL3, CCL4, CCL5, CCL2, CCL17, CCL22, CL20, CCL5, CCL2, CCL17,

CCL22, CXCL8, CCL20, CXCL1, TNF-alpha, IL-8, and IL-6. Additionally, IL-36 alpha/IL-1F6 up-regulates the expression of IL-1A, IL-1B, and IL-6 in cultured monocytes, promotes cell maturation in myeloid dendritic cells, and facilitates dendritic cell maturation while driving T-cell proliferation in monocyte-derived dendritic cells. Its interaction with TMED10 mediates translocation from the cytoplasm into the endoplasmic reticulum-Golgi intermediate compartment (ERGIC) and subsequent secretion. Furthermore, IL-36 alpha/IL-1F6 may contribute to pro-inflammatory effects in the lung.

Caution: Product has not been fully validated for medical applications. For research use only.

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