

IL-36 alpha/IL-1F6 Protein, Human (153a.a)

Cat. No.:	HY-P70702
Synonyms:	IL-36 alpha; IL-36 α ; 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:	27179
Molecular Weight:	Approximately 17.0 kDa

PROPERTIES

AA Sequence	<p>K I D T P Q Q G S I Q D I N H R V W V L Q D Q T L I A V P R K D R M S P V T I A</p> <p>L I S C R H V E T L E K D R G N P I Y L G L N G L N L C L M C A K V G D Q P T L</p> <p>Q L K E K D I M D L Y N Q P E P V K S F L F Y H S Q S G R N S T F E S V A F P G</p> <p>W F I A V S S E G G C P L I L T Q E L G K A N T T D F G L T M L F</p>
Biological Activity	The cell proliferation assay using A-431 Human epithelial carcinoma cells has an ED50 value of 12 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 50 mM Tris-HCl, 150 mM NaCl, 1 mM EDTA, 0.02% Tween 20, pH 8.0.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	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. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. 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>The IL-36 group of cytokines comprises three pro-inflammatory agonists (IL-36α, IL-36β, and IL-36γ), and one antagonist (IL-36Ra). All members of the IL-36 family use the same receptor (IL-36R), a heterodimer composed of interleukin-1 receptor-like 2 (IL1RL2) as the ligand binding moiety and the IL-1 receptor accessory protein (IL1RAcP). This receptor induces inflammatory responses through MyD88, MAPK, NF-κB, and AP-1 pathways. Constitutive protein expression of IL-36 (α, β, and γ) and their receptor (IL-36R) was found in all cell types. IL-36 cytokines are modulated by microbial components and regulate trophoblast migration and interaction with endothelial cells^{[1][2]}.</p>
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REFERENCES

- [1]. Hsi-Hua Chi, et al. IL-36 Signaling Facilitates Activation of the NLRP3 Inflammasome and IL-23/IL-17 Axis in Renal Inflammation and Fibrosis. *J Am Soc Nephrol.* 2017 Jul;28(7):2022-2037.
- [2]. José M Murrieta-Coxca, et al. Role of IL-36 Cytokines in the Regulation of Angiogenesis Potential of Trophoblast Cells. *Int J Mol Sci.* 2020 Dec 30;22(1):285.
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Caution: Product has not been fully validated for medical applications. For research use only.

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