

## IL-15 Protein, Human (Biotinylated, HEK293, Fc-Avi)

Cat. No.:	HY-P78860
Synonyms:	IL-15; Interleukin-15; MGC9721
Species:	Human
Source:	HEK293
Accession:	P40933 (N49-S162)
Gene ID:	3600
Molecular Weight:	54-60 kDa

### PROPERTIES

Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human IL15RA at 2 µg/mL can bind Biotinylated Human IL15, the EC <sub>50</sub> is 14.98-25.37 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized a 0.22 µm filtered solution of PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> 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	IL-15 Protein assumes a pivotal role in orchestrating inflammatory and protective immune responses against microbial invaders and parasites, modulating immune cells across both the innate and adaptive immune systems. This cytokine stimulates the proliferation of natural killer cells, T-cells, and B-cells, while also promoting the secretion of various cytokines. Notably, IL-15, unlike most cytokines, is expressed on the surface of IL-15-producing cells in association with its high-affinity receptor IL15RA, delivering signals to target cells expressing IL2RB and IL2RG receptor subunits. Upon binding to its receptor, IL-15 triggers the phosphorylation of JAK1 and JAK3, recruiting and subsequently phosphorylating signal transducer and activator of transcription-3/STAT3 and STAT5. In monocytes, IL-15 induces the production of IL8 and monocyte chemoattractant protein 1/CCL2, attracting neutrophils and monocytes to infection sites. Additionally, in mast cells, IL-15 induces rapid tyrosine phosphorylation of STAT6, exerting control over mast cell survival and the release of cytokines such as IL4.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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