

Animal-Free IL-27 EB13 Protein, Mouse (His)

Cat. No.:	HY-P700202AF
Synonyms:	Interleukin-27 subunit beta; IL-27 subunit beta; IL-27B; Epstein-Barr virus-induced gene 3 protein homolog
Species:	Mouse
Source:	E. coli
Accession:	O35228 (A23-P228)
Gene ID:	50498
Molecular Weight:	Approximately 23.84 kDa

PROPERTIES

AA Sequence	<p>M A L V A L S Q P R V Q C H A S R Y P V A V D C S W T P L Q A P N S T R S T S F</p> <p>I A T Y R L G V A T Q Q Q S Q P C L Q R S P Q A S R C T I P D V H L F S T V P Y</p> <p>M L N V T A V H P G G A S S S L L A F V A E R I I K P D P P E G V R L R T A G Q</p> <p>R L Q V L W H P P A S W P F P D I F S L K Y R L R Y R R R G A S H F R Q V G P I</p> <p>E A T T F T L R N S K P H A K Y C I Q V S A Q D L T D Y G K P S D W S L P G Q V</p> <p>E S A P H K P</p>
Biological Activity	Measure by its ability to protect HepG2 cells infected with encephalomyocarditis (EMC) virus. The ED ₅₀ for this effect is <5 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
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	IL-12, in association with IL23A, forms the IL-23 interleukin, a heterodimeric cytokine that plays essential roles in innate and adaptive immunity. This cytokine is implicated in the acute response to infection in peripheral tissues and binds to a heterodimeric receptor complex composed of IL12RB1 and IL23R, activating the Jak-Stat signaling cascade. IL-23 stimulates memory T-cells rather than naive T-cells and promotes the production of pro-inflammatory cytokines. It has been identified
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as a contributor to autoimmune inflammation, potentially responsible for autoimmune inflammatory diseases and implicated in tumorigenesis. Additionally, IL-12 functions as a growth factor for activated T and NK cells, enhancing the lytic activity of NK/lymphokine-activated killer cells, and stimulating interferon-gamma production by resting PBMC.

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

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