

IL-23 alpha Protein, Mouse (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P78152
Synonyms:	Interleukin-23 subunit alpha; IL-23 subunit alpha; IL-23-A; Interleukin-23 subunit p19; IL-23p19; IL23p19; IL23A; P19; SGRF
Species:	Mouse
Source:	HEK293
Accession:	Q9EQ14 (V22-A196)
Gene ID:	83430
Molecular Weight:	23-28 kDa

PROPERTIES

AA Sequence	<p>V P R S S S P D W A Q C Q Q L S R N L C M L A W N A H A P A G H M N L L R E E E</p> <p>D E E T K N N V P R I Q C E D G C D P Q G L K D N S Q F C L Q R I R Q G L A F Y</p> <p>K H L L D S D I F K G E P A L L P D S P M E Q L H T S L L G L S Q L L Q P E D H</p> <p>P R E T Q Q M P S L S S S Q Q W Q R P L L R S K I L R S L Q A F L A I A A R V F</p> <p>A H G A A T L T E P L V P T A</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
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 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-23 alpha, as a crucial component, associates with IL12B to form the IL-23 interleukin, a heterodimeric cytokine playing key roles in both innate and adaptive immunity. Operating in peripheral tissues, IL-23, in conjunction with IL-17, constitutes an acute response to infections. It binds to a heterodimeric receptor complex composed of IL12RB1 and IL23R, activating the Jak-Stat signaling cascade, preferentially stimulating memory T-cells, and fostering the production of pro-inflammatory cytokines. This cytokine induces autoimmune inflammation, potentially contributing to autoimmune inflammatory diseases and playing a significant role in tumorigenesis. Released by antigen-presenting cells such as dendritic cells or macrophages, IL-23 binds to its receptor complex, initiating signaling pathways that activate various cellular responses,</p>
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including the production of interleukin-17A/IL17A and promoting early and effective intracellular bacterial clearance. Additionally, IL-23 supports the expansion and survival of T-helper 17 cells, a CD4-positive helper T-cell subset known for producing IL-17, along with other IL-17-producing cells.

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

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