

IL-23 alpha & IL-12 beta Heterodimer Protein, Rabbit (HEK293, His)

Cat. No.:	HY-P73887
Synonyms:	IL-23 p19/IL-12 p40; IL23; IL-23A; Interleukin 23; SGRF
Species:	Rabbit
Source:	HEK293
Accession:	G1SSM0 (V22-P191)&G1TBD7 (I23-N324)
Gene ID:	100352065&100354852
Molecular Weight:	Approximately 43 kDa & 23 kDa

PROPERTIES

Biological Activity	Immobilized Human IL-23 R at 10 µg/mL (100 µL/well) can bind Rabbit IL-23 alpha & IL-12 beta Heterodimer Protein, The ED ₅₀ for this effect is 0.1880 µg/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 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 ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	The IL-23 alpha protein belongs to the IL-6 superfamily, a group of cytokines with diverse functions in immune regulation and inflammation. This heterodimeric protein is composed of two subunits, IL-23 alpha and IL-12 beta, which combine to form a biologically active complex. IL-23 alpha plays a crucial role in the differentiation and activation of T-helper 17 (Th17) cells, a subset of CD4 ⁺ T cells involved in the pathogenesis of autoimmune diseases and chronic inflammation. It stimulates the production of pro-inflammatory cytokines, such as IL-17 and IL-22, and promotes tissue inflammation and immune cell recruitment. Dysregulation of IL-23 alpha has been implicated in various autoimmune diseases, making it an attractive target for therapeutic interventions aimed at modulating immune responses and controlling inflammation.
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Caution: Product has not been fully validated for medical applications. For research use only.

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