

IL-11 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P701007
Synonyms:	Interleukin-11; IL11; Adipogenesis inhibitory factor; AGIF; INN: Oprelvekin; Oprelvekin; IL-11Oprelvekin; interleukin 11; interleukin-11
Species:	Cynomolgus
Source:	HEK293
Accession:	P20808 (P22-L199)
Gene ID:	102128313
Molecular Weight:	21-25 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 μ m filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	IL-11 Protein is a potent cytokine that plays a crucial role in stimulating the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells, leading to the maturation of megakaryocytes and subsequent production of platelets. Additionally, IL-11 Protein facilitates the proliferation of hepatocytes in response to liver damage. Upon binding to its receptor, composed of IL6ST and IL11RA, IL-11 Protein triggers a signaling cascade that promotes cell proliferation. This signaling cascade involves the activation of intracellular protein kinases and the phosphorylation of STAT3. IL-11 Protein can engage in two types of signaling: 'classic signaling' occurs through the interaction with membrane-bound IL11RA and IL6ST, while 'trans-signaling' is induced by the binding of IL-11 and soluble IL11RA to IL6ST. Furthermore, IL-11 Protein interacts with IL11RA to form a multimeric signaling complex in association with IL6ST.
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Caution: Product has not been fully validated for medical applications. For research use only.

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