

Recombinant Cynomolgus IL11 Protein

Cat. No. IL11-938C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cynomolgus IL11 Protein(XP_005595839.2) (Phe22-Leu199) was expressed in E. coli.
Species	Cynomolgus
Source	E.coli
ProteinLength	Phe22-Leu199
Description	IL11 is a multifunctional cytokine first isolated in 199 from bone marrow-derived stromal cells. It is a key regulator of multiple events in hematopoiesis, most notably the stimulation of megakaryocyte maturation. IL11 is also known under the names adipogenesis inhibitory factor (AGIF) and oprelvekin. IL11 can improve platelet recovery after chemotherapy-induced thrombocytopenia, induce acute-phase proteins, modulate antigen-antibody responses, participate in the regulation of bone cell proliferation and differentiation, and could be used as a therapeutic for osteoporosis. IL11 stimulates the growth of certain lymphocytes and, in the murine model, stimulates an increase in the cortical thickness and strength of long bones. As a signaling molecule, IL11 has a variety of functions associated with its receptor interleukin 11 receptor alpha; such functions include placentation and to some extent of decidualization.
Form	Lyophilized from sterile 50mM Tris, 50mM NaCl, pH 8.3 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

 Tel: 1-631-559-9269 1-516-512-3133

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	protectants before lyophilization.
Molecular Mass	The recombinant cynomolgus IL11 comprises 178 amino acids and has a calculated molecular mass of 19.39 kDa.
Purity	> 90 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	LOC102128313 interleukin-11 [<i>Macaca fascicularis</i> (crab-eating macaque)]
Official Symbol	IL11
Synonyms	IL11; IL-11
Gene ID	102128313
mRNA Refseq	XM_015444807.1
Protein Refseq	XP_005595839.2
UniProt ID	P20808

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