Active Recombinant Canine IL11 Protein, His-tagged

Cat. No. IL11-11100C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Canine IL-11 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Ala 21 - Leu 199 (Accession # A0A8C0QKD2). This protein carries a polyhistidine tag at the N-terminus. Predicted N-terminus: His
Species	Canine
Source	HEK293
ProteinLength	21-199 aa
Description	Interleukin-11 (IL-11) is a pleiotropic cytokine that stimulates megakaryocytopoiesis, resulting in increased production of platelets, as well as activating osteoclasts, inhibiting epithelial cell proliferation and apoptosis, and inhibiting macrophage mediator production. These functions may be particularly important in mediating the hematopoietic, osseous and mucosal protective effects of IL-11. The cytokine also possesses anti-inflammatory activity, and has been proposed as a therapeutic agent in the treatment of chronic inflammatory diseases, such as Crohn's disease and rheumatoid arthritis. Although IL-11 was initially believed to be restricted to mammals, subsequent studies demonstrated it to be expressed in fish. Despite close similarity in gene structure and conservation of key amino acids between fish and mammalian IL-11, they share relatively low overall amino acid identity and may not necessarily be functionally analogous.
Form	Lyophilized from 0.22 μm filtered solution in 10 mM Citric acid, PBS, pH3.0 with

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	trehalose as protectant.
Bio-activity	Immobilized Biotinylated Human IL-11 R alpha, Fc, Avitag at 1 μg/mL (100 μL/well) on streptavidin precoated (0.5 μg/well) plate can bind Canine IL-11 Protein, His Tag with a linear range of 2-31 ng/mL.
Molecular Mass	The protein has a calculated MW of 21 kDa. The protein migrates as 23-24 kDa and 26-27 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please 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 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	IL11 interleukin 11 [Canis lupus familiaris]
Official Symbol	IL11
Synonyms	IL11; interleukin 11; interleukin-11;

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Gene ID	611309
UniProt ID	A0A8C0QKD2

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