

Swine recombinant IL-15 (Interleukin-15) protein, AF

Catalog Number: PROTQ95253

Overview

Product Name	Swine recombinant IL-15 (Interleukin-15) protein, AF
Description	Interleukin 15 (IL-15) is a 12.65 kDa cytokine with 114 amino acid residues and is primarily produced from mononuclear phagocytes like dendritic cells, monocytes, and macrophages. IL-15 plays a critical role in the innate immune system when IL-15 binds to the IL-15 receptor. In addition, IL-15 mediates biological functions, such as the proliferation of natural killer cells and T cells, preventing the immune cells from apoptosis by activating STAT3 /JAK and PI3K/ALT signaling pathways.
Size	5ug,20ug
Tag	His Tag (N-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>95% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 14.06 kDa. The protein migrates as 11-17 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce proliferation in TF-1 cells. The ED₅₀ for this effect is <5.5 ng/mL.

Endotoxin

<0.01 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

TWQHVISDLKKIEDLIRSIHMDATLYTESDAHPNCKVTAMKCFLELRVILQESRNSDISDTVENLIILANSSLSSIEYKTESGCKECEEELEKNINEFLKSFIH
VQMFINPS with polyhistidine tag at the N-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Usage

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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