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Human recombinant IL-2 (Interleukin-2) protein, AF

Catalog Number: PROTP60568-6

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Overview

Product Name	Human recombinant IL-2 (Interleukin-2) protein, AF
Description	Interleukin-2 (IL-2) is a 15.5 kDa four bundle, immuno-modulatory cytokine which is expressed predominately by antigen-simulated CD4+ T cells, CD8+ T cells, natural killer (NK) cells, and dendritic cells (DC). IL-2 plays a fundamental role in promoting NK cell proliferation, cytotoxicity, and B cells differentiation. IL-2 modulate T cell differentiation programs, promoting na?ve CD4+ T cell differentiation into T helper-1 (Th1) and T helper-2 (Th2) cells.
Size	20ug,100ug,500ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 8.0. 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

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 16.4 kDa. The protein migrates as 13 kDa under reducing condition (SDS-PAGE analysis).

kDa

Activity

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Measure by its ability to induce proliferation in CTLL-2 cells. The ED_{50} for this effect is <3 ng/mL. The specific activity of recombinant human IL-2 is >5 x 10^6 IU/mg.

Endotoxin

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

Amino Acid Sequence

MAPTSSSTKKTQLQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSET TFMCEYADETATIVEFLNRWITFCQSIISTLT with polyhistidine tag at the C-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O 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.

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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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For Research Use Only. Not for use in diagnostic procedures.