

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

Catalog Number: PROTP60568-6

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-stimulated 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

Measure by its ability to induce proliferation in CTLL-2 cells. The ED₅₀ for this effect is 5 x 10⁻⁷ IU/mg.

Endotoxin

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

Amino Acid Sequence

MAPTSSSTKKTQLQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSET
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 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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