Datasheet for ABIN6700063

IL-2 Protein

1 Image

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Overview

Quantity:	50 µg
Target:	IL-2 (IL2)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	IL-2 Human Recombinant Protein
Purification:	Purity was determined to be greater than 90% as determined by analysis by RP-HPLC and by reducing and non-reducing SDS- PAGE, against known standard.
Purity:	90,00%
Endotoxin Level:	Measured by LAL is < 0.5 EU/µg protein.
Biological Activity Comment:	Recombinant Human IL-2 is fully bioactive when compared to standard. The ED50 as measured by the dose-dependent proliferation of CTLL-2 cells is typically 1.0 ng/ml.

Target Details

Target:	IL-2 (IL2)
Alternative Name:	IL2 (IL2 Products)
Background:	Synonyms: Interleukin-2 cytokine, aldesleukin, T cell growth factor2, TCGF, Background: Interleukin-2 (IL2) is a secreted immunomodulatory cytokine that is essential in

Target Details

	regulation and proliferation of T and B lymphocytes, and other activities crucial to regulation of the immune response. The receptor of this cytokine (the IL-2R receptor) is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli. IL2 has been shown to have antitumor effects in some studies. This is probably mediated by cytotoxic effector cells. Produced by T-cells in response to antigenic or mitogenic stimulation, this protein can stimulate B-cells, monocytes, lymphokine-activated killer cells, natural killer cells, and glioma cells. Recombinant IL-2 produced in E. coli is a single, non-glycosylated polypeptide chain containing 134 amino acids and having a molecular mass of 15,517 Daltons. Recombinant human IL-2 has a Ser substitute for Cysteine at position 126.
UniProt:	Q6QWN0
Pathways:	JAK-STAT Signaling, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Activated T Cell Proliferation

Application Details

Application Notes:	Application Note: IL-2 protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-IL-2 in immunological assays. Other: User Optimized
Restrictions:	For Research Use only

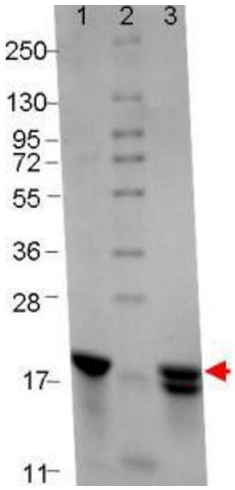
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 50µL
Concentration:	0.1 mg/mL
Buffer:	Buffer: 0.1 % Trifluoroacetic acid Stabilizer: None
Preservative:	Without preservative

Handling

Storage:	-20 °C
Storage Comment:	Store vial at -20° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL) . For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. IL-2 Human Recombinant Protein - SDS-PAGE. SDS-PAGE shows bands corresponding to IL-2 (1µg) in lane 1 (reduced) and lane 3 (non-reduced, arrowhead). Molecular weight estimation was made by comparison to prestained MW markers, lane 2.