Recombinant Human IL2 Protein

Cat. No. IL2-14H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL2 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene is a member of the interleukin 2 (IL2) cytokine subfamily which includes IL4, IL7, IL9, IL15, IL21, erythropoietin, and thrombopoietin. The protein encoded by this gene is a secreted cytokine produced by activated CD4+ and CD8+ T lymphocytes, that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine (IL2R) is a heterotrimeric protein complex whose gamma chain is also shared by IL4 and 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.
Molecular Mass	The protein has a calculated MW of 57.6 kDa.
AA Sequence	MGADDVVDSSKSFVMENFSSYHGTKPGYVDSIQKGIQKPKSGTQGNYDDDWKGFY STDNKYDAAGYSVDNENPLSGKAGGVVKVTYPGLTKVLALKVDNAETIKKELGLSLT EPLMEQVGTEEFIKRFGDGASRVVLSLPFAEGSSSVEYINNWEQAKALSVELEINFE TRGKRGQDAMYEYMAQACAGNRVRRSVGSSLSCINLDWDVIRDKTKTKIESLKEHG PIKNKMSESPNKTVSEEKAKQYLEEFHQTALEHPELSELKTVTGTNPVFAGANYAAW

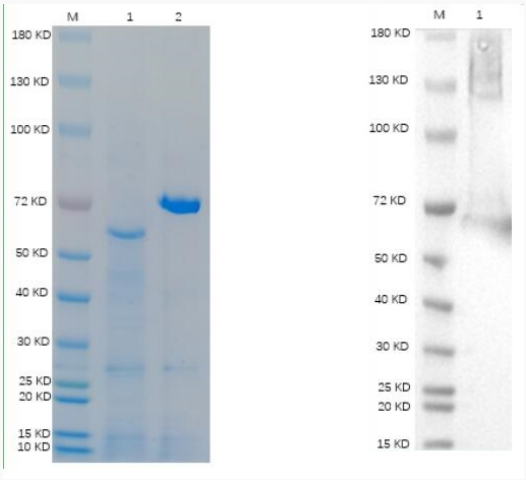
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	AVNVAQVIDSETADNLEKTTAALSILPGIGSVMGIADGAVHHNTEEIVAQSIALSSLMV AQAIPLVGELVDIGFAAYNFVESIINLFQVVHNSYNRPAYSPGHKTHAPTSSSTKKTQ LQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEELKPLEEV LNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFCQSII STLT
Endotoxin	< 1 EU/μg by LAL
Purity	> 40% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	Denileukin diftitox (0.4 mg/mL)/Total Protein (1.0 mg/mL)
Storage Buffer	Sterile 50 mM Tris, 300 mM NaCl, 400 mM Argine, pH 8.0

GENE INFORMATION

Gene Name	IL2 interleukin 2 [Homo sapiens (human)]
Official Symbol	IL2
Synonyms	IL2; interleukin 2; IL-2; TCGF; lymphokine; interleukin-2; T cell growth factor; aldesleukin; involved in regulation of T-cell clonal expansion
Gene ID	3558
mRNA Refseq	NM_000586
Protein Refseq	NP_000577

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MIM	147680
UniProt ID	P01585
Reducing 12% SDS-PAGE (CBB stained) and WB (Anti-Interleukin 2 Mouse Monoclonal Antibody) analysis profile of purified Denileukin diftitox.	 1. Denileukin diftitox 2. BSA

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