

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	MGADDVVDSSKSFVMENFSSYHGTPGYVDSIQKGIQPKPSGTQGNYYDDDWKGFY STDNKYDAAGYSVDNENPLSGKAGGVVKVTYPGLTKVLALKVDNAETIKKELGLSLT EPLMEQVGTEEFIKRFGDGASRVVLSLPFAEGSSSVEYINNWEQAKALSVELEINFE TRGKRGQDAMYEYMAQACAGNRVRRSVGSSLSCINLDWDVIRDKTKTKIESLKEHG PIKNKMSESPNKTVSEEKAKQYLEEFHQTALEHPELSELKTVTGTNPVFAGANYAAW

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AVNVAQVIDSETADNLEKTTAALSILPGIGSVMGIADGAVHHNTEEEIVAQSIALLSSLMV
 AQAIPLVGELVDIGFAAYNFVESIINLFQVVHNSYNRPAYSPGHKTHAPTSSSTKKTQ
 LQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEELKPLEEV
 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 diftiox (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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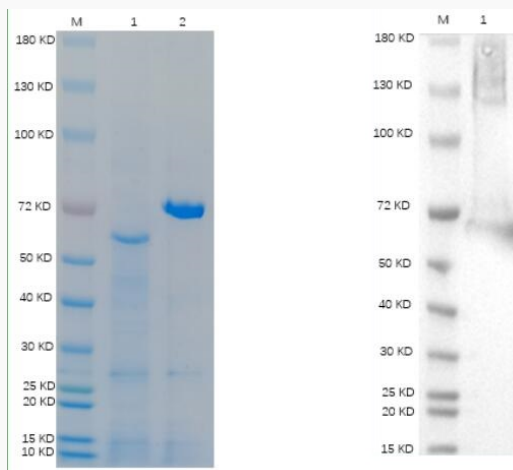
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MIM 147680

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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