

Recombinant Human IL2 Protein, C-6×His tagged

Cat. No. IL2-70H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IL2 protein with C-6×His tag was produced in E. coli cells transformed with human IL-2 gene. This product is sterile and does not contain any components of animal origin.
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.
AA Sequence	MAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLQ CLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVE FLNRWITFSQSIISTLTGGGGSHHHHHH
Purity	> 95% by SDS-PAGE

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Applications	Research only
Quality Control Test	Verified by Mass Spectrometry analyses and disulfide mapping.
Notes	For research use only
Storage	Avoid repeated freeze-thaw cycles. 12 months at -20 to -80 centigrade. 1 month at 2 to 8 centigrade.
Concentration	1.0 mg/mL
Storage Buffer	Sterile filtered through a 0.2 micron filter in 50% glycerol, 10 mM Phosphate buffer at pH 7, 200 mM

GENE INFORMATION

Gene Name	IL2 interleukin 2 [Homo sapiens (human)]
Official Symbol	IL2
Synonyms	IL2; interleukin 2; interleukin-2; IL 2; T cell growth factor; TCGF; aldesleukin; involved in regulation of T-cell clonal expansion; IL-2; lymphokine
Gene ID	3558
mRNA Refseq	NM_000586
Protein Refseq	NP_000577
MIM	147680

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UniProt ID	P60568
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