

Active Recombinant Human IL2

Cat. No. IL2-341H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human IL2 (NP_000577, 22 a.a.-153 a.a.) partial recombinant protein expressed in Escherichia coli.
Species	Human
Source	Human
Description	Interleukin-2 (IL-2) is an interleukin, a type of cytokine immune system signaling molecule, which is a leukocytotrophic hormone that is instrumental in the body's natural response to microbial infection and in discriminating between foreign (non-self) and self. IL-2 mediates its effects by binding to IL-2 receptors, which are expressed by lymphocytes, the cells that are responsible for immunity.
Sequence	MPTSSSTKKT QLQLEHLLLD LQMILNGINN YKNPKLTRML TFKFYMPKKA TELKHLQCLE EELKPLEEVL NLAQSKNFHL RPRDLISNIN VIVLELKGSE TTFMCEYADE TATIVEFLNR WITFSQSIIS TLT
Theoretical MW (kDa)	15.4
Form	Liquid
Preparation Method	Escherichia coli expression system
Purity	> 95% by SDS-PAGE

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Activity	Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is < 1.5 ng/mL.
Application	SDS-PAGE
Storage Buffer	In PBS, pH 7.4
Storage	Store at 4°C for 1-2 weeks. For long term storage store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Unitprot ID	P60568
Pathways	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; T cell receptor signaling pathway; Type I diabetes mellitus

GENE INFORMATION

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

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Chromosome Location	4q26-q27
Function	interleukin-2 receptor binding; kinase activator activity

PDBrendering based on 1IRL.



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