IL-2 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	IL-2, Recombinant Protein
Full Product Name	Recombinant Human IL-2 Protein
Product Gene Name	IL-2 recombinant protein
Product Synonym Gene Name	IL2
Product Synonym Names	Interleukin-2; IL-2; T-cell growth factor; TCGF; Aldesleukin
Sequence	MPTSSSTKKT QLQLEHLLLD LQMILNGINN YKNPKLTRML TFKFYMPKKA TELKHLQCLE EELKPLEEVL NLAQSKNFHL RPRDLISNIN VIVLELKGSE TTFMCEYADE TATIVEFLNR WITFSQSIIS TLT
Host	E Coli
Form/Format	Lyophilized from a 0.2 mum filtered solution of 10mM Acetata-Na, 5% Trehaiose, pH 4.5.
Purity/Purification	>95% as determined by reducing SDS-PAGE
Preparation and Storage	Lyophilized protein should be stored at -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at -20 degree C for 3 months.
OMIM	147680
3D Structure	ModBase 3D Structure for P60568
Endotoxin	Less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.
Applications Tested/Suitable for IL-2 recombinant protein	ELISA (EIA), Western Blot (WB), SDS-PAGE
Related Product Information for IL-2 recombinant protein	Recombinant Human IL-2 Protein is produced by E Coli expression system and the target gene encoding Pro22-Thr153 is expressed
Other Notes	Small volumes of IL-2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IL-2 purchase	MBS8305029 is a recombinant protein targeting IL-2. Also known as Recombinant Human IL-2 Protein. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-2. It may not necessarily be applicable to this product.

NCBI GI #	28178861
NCBI GeneID	3558
NCBI Accession #	NP_000577.2
UniProt Primary Accession #	P60568
UniProt Related Accession #	P60568
GenBank Nucleotide #	NP_000577.2
NCBI Official Full Name	interleukin-2

NCBI Official Synonym Full Names	interleukin 2
NCBI Official Symbol	IL2
NCBI Official Synonym Symbols	IL-2; TCGF; lymphokine
UniProt Protein Name	Interleukin-2
UniProt Synonym Protein Names	T-cell growth factor
UniProt Gene Name	IL2
UniProt Synonym Gene Names	IL-2; TCGF
UniProt Entry Name	IL2_HUMAN
NCBI Protein Information	interleukin-2
NCBI Summary for IL-2	The protein encoded by this gene is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine 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. [provided by RefSeq, Jul 2008]
UniProt Comments for IL-2	IL2: Produced by T-cells in response to antigenic or mitogenic stimulation, this protein is required for T-cell proliferation and other activities crucial to regulation of the immune response. Can stimulate B-cells, monocytes, lymphokine- activated killer cells, natural killer cells, and glioma cells. A chromosomal aberration involving IL2 is found in a form of T-cell acute lymphoblastic leukemia (T-ALL). Translocation t(4;16)(q26;p13) with involves TNFRSF17. Belongs to the IL-2 family. Protein type: Oncoprotein; Cytokine; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 4q26-q27 Cellular Component: extracellular space; extracellular region Molecular Function: growth factor activity; interleukin-2 receptor binding; kinase activator activity; cytokine activity; glycosphingolipid binding; carbohydrate binding; kappa-type opioid receptor binding Biological Process: positive regulation of isotype switching to IgG isotypes; negative regulation of heart contraction; natural killer cell activation; positive regulation of activated T cell proliferation; negative regulation of lymphocyte proliferation; elevation of cytosolic calcium ion concentration; cell-cell signaling; negative regulation of protein amino acid phosphorylation; protein kinase C activation; positive regulation of cell proliferation; positive regulation of B cell proliferation; cell adhesion; T cell differentiation; positive regulation of interleukin-17 production; regulation of T cell homeostatic proliferation; positive regulation of regulatory T cell differentiation; positive regulation of immunoglobulin secretion; positive regulation of cell growth; positive regulation of tissue remodeling; positive regulation of interferon-gamma production; positive regulation of tyrosine phosphorylation of Stat5 protein; negative regulation of inflammatory response; immune response; positive regulation of transcription from RNA polymerase II promoter; negative regulation of B cell apoptosis; positive regulation of inflammatory response; negative regulation of apoptosis
Research Articles on IL-2	**1.** Measuring IL-2 and IL-8 in the serum may be a surrogate marker of the immunosuppressive status of kidney transplant recipients
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