# Interleukin-2 (IL2) Rat Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Interleukin-2 (Il2), Recombinant Protein |
| **Full Product Name** | Rat Interleukin-2 Recombinant |
| **Product Gene Name** | Il2 recombinant protein |
| **Sequence** | MYRMQLLSCI ALSLALVTNS APTSSSTKKT QLQLEHLLLD LQMILNGINN YKNPKLTRML TFKFYMPKKA TELKHLQCLE EELKPLEEVL NLAQSKNFHL RPRDLISNIN VIVLELKGSE TTFMCEYADE TATIVEFLNR WITFCQSIIS TLT |
| **Host** | E coli (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.) |
| **Form/Format** | Recombinant Rat Interleukin-2 was lyophilized from a 0.2 um filtered PBS solution. |
| **Purity/Purification** | >95%, as determined by SDS-PAGE and HPLC |
| **Preparation and Storage** | The lyophilized protein is stable for at least years from date of receipt at-20 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2 degree -8 degree C for one month, or at-20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles. |
| **Molecular Weight** | 17,633 Da |
| **3D Structure** | ModBase 3D Structure for P17108 |
| **Source** | Optimized DNA sequence encoding Rat Interleukin-2 mature chain was expressed in Escherichia Coli. |
| **Endotoxin** | Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug). |
| **Molecular Function** | Cytokine, Growth-factor |
| **Biological Process** | Immunity |
| **Reconstitution** | A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers. |
| **Product Categories/Family for Il2 recombinant protein** | Hematopoietins; IL-2 family; Recombinant Rat Cytokines |
| **Related Product Information for Il2 recombinant protein** | MBS554190 is a recombinant protein targeting Il2. Also known as Rat Interleukin-2 Recombinant. Host: E coli (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.). |
| **Other Notes** | Small volumes of Il2 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. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Il2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 16758692 |
| **NCBI GeneID** | 116562 |
| **NCBI Accession #** | NP_446288.1 |
| **UniProt Primary Accession #** | P17108 |
| **UniProt Related Accession #** | P17108 |

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| **GenBank Nucleotide #** | NM_053836.1 |
| **NCBI Official Full Name** | interleukin-2 |
| **NCBI Official Synonym Full Names** | interleukin 2 |
| **NCBI Official Symbol** | Il2 |
| **UniProt Protein Name** | Interleukin-2 |
| **UniProt Synonym Protein Names** | T-cell growth factor; TCGF |
| **Protein Family** | Interleukin |
| **UniProt Gene Name** | Il2 |
| **UniProt Synonym Gene Names** | Il-2; IL-2; TCGF |
| **UniProt Entry Name** | IL2_RAT |
| **NCBI Protein Information** | interleukin-2; IL-2; T-cell growth factor; TCGF |
| **NCBI Summary for Il2** | cytokine produced by T-cells in response to antigen or mitogen stimulation [RGD, Feb 2006] |
| **UniProt Comments for 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. |
| **Research Articles on Il2** | **1.** Data indicate that C-rel binding on the interleukin-2 (IL-2) promoter region declined in the aged CD4+T cells. |
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