

Recombinant Mouse IL2 protein

Cat. No. IL2-687M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL2 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	149
Description	IL-2 is a powerful immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. It is expressed by CD4+ and CD8+ T cells, $\gamma\delta$ T cells, B cells, dendritic cells, and eosinophils. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions which are essential for the immune response. The receptor for IL2 consists of three subunits (55 kDa IL2Rα, 75 kDa IL2Rβ, 64 kDa common gamma chain γc/IL2Rγ) that are present on the cell surface in varying preformed complexes; Mature mouse IL2 shares 56 % and 73 % amino acid sequence identity with human and rat IL2 respectively. Mouse and human IL2 exhibit cross-species activity. Mouse IL2 has a specific N-terminal region that contains a poly glutamine (contain 12 glutamines) stretch.
Form	Lyophilized from a 0.2 μ m filtered solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine CTLL-2 cells is less than 0.2 ng/ml, corresponding to a specific activity of $> 5.0 \times 10^6$ IU/mg.

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Molecular Mass	Approximately 17.2 kDa, a single non-glycosylated polypeptide chain containing 149 amino acids.
AA Sequence	APTSSSTSSSTAEAQQQQQQQQQQQHLEQLLMDLQELLSRMENYRNLKLPRMLT FKFYLPKQATELKDLQCLEDELGPLRHVLDLTQSKSFQLEDAENFISNIRVTVVKLKG SDNTFECQFDDESATVVDFLRRWIAFCQSIISTSPQ
Endotoxin	Less than 1 EU/g of rMuIL-2 as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	IL2
Official Symbol	IL2
Synonyms	IL2; interleukin 2; interleukin-2; TCGF; T-cell growth factor; IL-2;
Gene ID	16183

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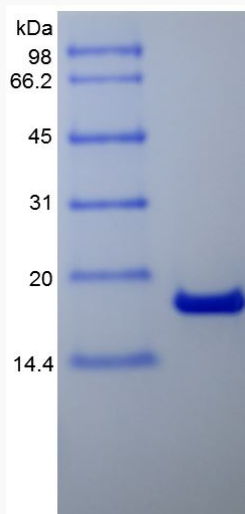
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mRNA Refseq NM_008366

Protein Refseq NP_032392

UniProt ID P04351

SDS-PAGE of IL2-
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