

Recombinant Mouse IL-2

Catalog # FL075

Product Specifications

Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Purity	> 96% by SDS-PAGE or HPLC.
Endotoxin	< 0.01 EU/μg of rMuIL-2 protein as determined by LAL method.
Expression System	Expressed in E. coli.
Species	Mouse
Tag	Tag free.
Activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using mouse CTLL-2 cells is less than 0.2 ng/ml, corresponding to a specific activity of $\geq 5.0 \times 10^6$ IU/mg.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a 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 $\leq -20^\circ\text{C}$. Further dilutions should be made in appropriate buffered solutions.
Accession #	P04351 Ala21-Gln169
Amino acid sequence	APTSSSTSSSTAEAQQQQQQQQQQHLEQLLMDLQELLSRMENYRNKLPRLMTFKFYLPKQATELKDLQCLEDELGPLRHVLDLTQSKSFQLEDAENFISNIRVTVVKLGKSDNTFECQFDDESATVVDFLRRWIAFCQSIISTSPQ
Molecular weight	Approximately 17.2 kDa, a single non-glycosylated polypeptide chain containing 149 amino acids.
Synonyms	T-cell growth factor, TCGF, Aldesleukin
Stability & Storage	Shipped on wet ice. For long term storage, the product should be stored $\leq -20^\circ\text{C}$. Please avoid repeated freeze-thaw cycles after reconstitution. 36 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.
Precautions	Recombinant Mouse IL-2 is for research use only and not for use in diagnostic or therapeutic procedures.

Background

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. IL-2 stimulates growth and differentiation of B-cells, NK cells, lymphokine-activated killer cells, monocytes, macrophages and oligodendrocytes. Mature mouse IL-2 shares 56% and 73% amino acid sequence identity with human and rat IL-2 respectively. Mouse and human IL-2 exhibit cross-species activity. Mouse IL-2 has a specific N-terminal region that contains a poly glutamine stretch. Recombinant Mouse IL-2 is a 17.2kDa globular protein containing 149 amino acid.

