



Recombinant Human Interleukin-2 (rhIL-2)

Catalog #101-02

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 IL-2 consists of three subunits (55 kDa IL-2R α , 75 kDa IL-2R β , and 64 kDa common gamma chain γ_c /IL-2R γ) that are present on the cell surface in varying preformed complexes. Mature human IL-2 shares 56 % and 66 % amino acid sequence identity with mouse and rat IL-2, respectively. Human and mouse IL-2 exhibit cross-species activity.

Specifications

Synonyms:	IL2, T-cell Growth Factor, TCGF, Aldesleukin
AA Sequence:	SAPTSSSTKKT QLQLEHLLLD LQMILNGINN YKNPKLTRML TFKFYMPKKA TELKHLQCLE EELKPLEEVL NLAQSKNFHL RPRDLISNIN VIVLELKGSE TTFMCEYADE TATIVEFLNR WITFCQSIIS TLT
Source:	<i>Escherichia coli</i>
Molecular Weight:	15.4 kDa, a single non-glycosylated polypeptide chain containing 134 amino acids
Purity	> 95%
Physical Appearance:	White lyophilized powder.
Endotoxin:	<0.1 ng/ μ g of protein (<1 EU/ μ g)

Formulation

Lyophilized from a 0.2 μ m filtered concentrated (1mg/ml) solution in PBS, pH 7.4.

Rev. 0

Reconstitution

Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.

Shipping and Storage

Gel pack. Upon receipt, store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.

Usage

rhIL-2 is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.