

IL-2 Protein, Mouse (HEK293, His-Avi)

Cat. No.:	HY-P78312
Synonyms:	IL2; T-cell growth factor; TCGF; Aldesleukin
Species:	Mouse
Source:	HEK293
Accession:	P04351 (A21-Q169)
Gene ID:	16183
Molecular Weight:	27-30 kDa

PROPERTIES

Biological Activity	Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The ED ₅₀ for this effect is <1 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	IL-2 is a receptor cytokine produced by activated CD4-positive helper T cells and plays its role by activating JAK/STAT, inosine phosphate 3-kinase /PI3K and mitogen-activated protein kinase /MAPK. IL-2 binds to receptor complexes consisting of high affinity trimers IL-2R (IL2RA/CD25, IL2RB/CD122 and IL2RG/CD132) or low affinity dimers IL-2R (IL2RB and IL2RG). IL-2 can increase the cytolytic activity of NK cells. Promote strong proliferation of activated B cells and immunoglobulin production. IL-2 is involved in differentiation and homeostasis of effector T cell subsets, including Th1, Th2, Th17, and memory CD8-positive T cells. IL-2 synthesis is strictly regulated by TCR and CD28 signaling at the mRNA level. It mediates the activation induced cell death (AICD) process. IL-2 can be used in the research of cancer immunotherapy ^{[1][2][3][4][5][6]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

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