

Recombinant Rat Interleukin-2, Liquid

Catalog No: #AP60227



Package Size: #AP60227-1 5ug #AP60227-2 100ug #AP60227-3 500ug

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Description

Product Name	Recombinant Rat Interleukin-2, Liquid
Host Species	Escherichia coli.
Purification	> 97 % by SDS-PAGE and HPLC analyses.
Other Names	T-cell Growth Factor, CGF
Uniprot	P17108
GeneID	116562
Calculated MW	Approximately 15.5 kDa, a single non-glycosylated polypeptide chain containing 135 amino acids.
Target Sequence	APTSSPAKET QQHLEQLLLD LQVLLRGIDN YKNLKLPMML TFKFYLPKQA TELKHLQCLE NELGALQRVL DLTQSKSFHL EDAGNFISNI RVTVVKLKGS ENKFECQFDD EPATVVEFLR RWIAICQSII STMTQ
Formulation	A 0.2 µm filtered concentrated sterile solution in 10 mM sodium citrate, pH 4.0, 30 % glycerol.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 6 months from date of receipt, -20 to -70 °C as supplied.- 3 months, -20 to -70 °C under sterile conditions after opening.

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. The receptor for IL-2 consists of three subunits (55 kDa IL2R α , 75 kDa IL2R β , 64 kDa common gamma chain γ /IL2R γ) that are present on the cell surface in varying preformed complexes. Recombinant rat IL-2 is a 15.3 kDa protein containing 134 amino acid residues and it shares about 82 %, 66 %, 66 %, 60 % and 54 % amino acid sequence identity with mouse, human, rhesus macaque, pig and equus caballus IL-2, respectively.

Note: This product is for in vitro research use only