

Recombinant Human IL2

Cat No:HR2R1574

For research use only

Overview

Quantity	50 ?g
Gene Symbol	IL2
Gene ID	3558
Accession	P60568
Alternative Name	IL-2, T-cell growth factor, TCGF, INN=Aldesleukin Recombinant Human Interleukin-2 (IL2)
Species	Human
Source	CHO cells
Description	IL-2 is produced mainly by T cells expressing the surface antigen CD4 following cell activation by mitogens or allogen. Interleukin-2 (IL-2) has multiple, sometimes opposing, functions during an inflammatory response. It is a potent inducer of T cell proliferation. Th1 and Th2 effector T cell differentiation and provides T cells with a long-lasting competitive advantage resulting in the optimal survival and function of memory cells. In a regulatory role, IL-2 is important for the development, survival, and function of regulatory T cells, it enhances Fas- mediated activation-induced cell death, and it inhibits the development of inflammatory Th17 cells. Thus, in its dual and contrasting functions, IL-2 contributes to both the induction and the termination of inflammatory immune responses.
Functions	The ED(50) was determined by the dose dependent proliferation of murine CTLL-2 cells and was found to be less than 0.1 ng/mL, corresponding to a specific activity of > 2.0 x 10 ⁷ units/mg.
Formulation	Recombinant Interleukin-2 was lyophilized from a 0.2 ?m filtered concentrated (1.0 mg/mL) solution in PBS, pH 7.2.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	15
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature

Storage
Condition

The lyophilized protein is stable for at least one year from date of receipt at -70°C. Upon reconstitution, this cytokine can be stored in working aliquots at 2° - 8°C for one month, or at -20°C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

