Recombinant Human IL2

Cat No:HR2R1572

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 Recombinant Human Interleukin-2 (IL2)
Species	Human
Source	E. coli
Description	A helical bundle of 4 ?-helices, IL2 is an immunoregulatory cytokine that is expressed by CD4+/CD8+ T cells, ?? T cells, B cells, eosinophils and dendritic cells. IL2 stimulates growth and differentiation of B-cells, NK cells, lymphokine-activated killer cells, monocytes, macrophages and oligodendrocytes. While Human IL2 shares 56% and 66% amino acid sequence identity with mouse and rat IL2, respectively only human and mouse IL2 exhibit cross-species activity. Characteristically, IL2 exerts both autocrine and paracrine activity on T cells. In a regulatory role, IL2 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. Recombinant Human IL2 is a non-glycosylated polypeptide that contains one intrachain disulfide bond.
Functions	The ED50 as determined by the dose dependent proliferation of human T cells was found to be less than 0.5 ng/mL equivalent to 0.8X10^4IU/?g as calibrated against International standard.
Formulation	Lyophilized from a 0.2?m filtered solution in Tris and NaCL (pH 8.0)
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.