

Recombinant Human IL7

Cat No:HR2R1627

For research use only

Overview

Quantity	1.0 ?g
Gene Symbol	IL7
Gene ID	3574
Accession	P13232
Alternative Name	IL-7 Recombinant Human Interleukin-7 (IL7)
Species	Human
Source	E. coli
Description	IL7 is secreted constitutively into the conditioned medium of adherent bone marrow stromal cells and thymic cells. Mouse and human keratinocytes have been shown also to express and secrete IL7. Human (152 amino acids; 17.4 kDa) and murine IL7 (129 amino acids) show 60 % sequence homology at the protein level. The human IL7 receptor is an integral strongly glycosylated membrane proteins of 76 kDa expressed on activated T-cells. This receptor has been designated as CD127. IL7 receptors are expressed on pre-B-cells and their progenitors. They are not expressed on mature B-cells. IL7 receptors are expressed also on bone marrow macrophages. Functional IL7 receptors are found on the cell surface of multiphenotypic, biphenotypic, and immature lymphoid progenitors of B- cells with the gene arrangement of the heavy immunoglobulin chain such as those observed in the germ line
Functions	The ED50 as determined by dose-dependent stimulation of mouse lymphoma was <0.5ng/ml
Formulation	Lyophilized from a 0.2 ?m filtered solution in sodium phosphate and NaCl
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	17.7
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.