

Recombinant Human IL7

Cat No:HR2R1628

For research use only

Overview

Quantity	100 ?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 a secreted cytokine of the hemopoietin family that primarily affects early B and T cells and plays an important role in stimulating the proliferation of lymphoid progenitors. IL7 is produced by stromal epithelial cells of the thymus, bone marrow, and intestines. Human and murine IL7 share 60% sequence homology at the primary level and known to exhibit cross species activity. Designated CD127, the human IL7 receptor is a strongly glycosylated membrane protein of 76 kDa. Recombinant Human IL7 is a 17.7 kDa, non-glycosylated protein.
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.