Recombinant Mouse IL7

Cat No:HR2R2179

For research use only

Overview

Quantity	10 ?g
Gene Symbol	IL7
Gene ID	16196
Accession	N/A
Alternative Name	Interleukin-7
Species	Mouse
Source	E. coli
Description	IL7 is a hematopoietic growth factor constitutively produced by stromal cells from the bone marrow and thymus. It is critical for B and T cell development and survival. IL7 promotes the differentiation of hematopoietic stem cells to lymphoid precursor cells by binding to a receptor composed of common gamma chain and IL-7Ra (CD127). Lymphoid precursor cells give rise to T cells, B cells, and natural killer cells. Furthermore, IL7 provides signals to regulate the survival of naive and memory CD4+ and CD8+ T cells NK T cells, innate lymphoid cells, and T regulatory cells. During B-cell development, IL7 also provides signals to promote survival, proliferation and differentiation. Recombinant mouse IL7 is a non-glycosylated protein with a molecular mass of 15.2 kDa.
Functions	N/A
Formulation	Lyophilized from a 0.2 ?m filtered solution in PBS
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	N/A
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	This protein 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.