

Recombinant Human IL7 protein, His-tagged

Cat. No. IL7-29H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human IL7, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	IL7, as known as interleukin-7 isoform 1, is a cytokine of the hemopoietin family that plays important roles in lymphocyte differentiation, proliferation, and survival. This protein is a hematopoietic growth factor secreted by stromal cells in the bone marrow and thymus. It is also produced by keratinocytes, dendritic cells, hepatocytes, neurons, and epithelial cells but is not produced by normal lymphocytes.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	18.4kDa (161aa) 18-28kDa (SDS-PAGE under reducing conditions.)
AA Sequence	ADPDCDIEGK DGKQYESVLM VSIDQLLD SM KEIGSNCLNN EFNFFKRHIC DANKEGMFLF RAARKLRQFL KMNSTGDFDL HLLKVSEGTT ILLNCTGQVK GRKPAALGEA QPTKSLEENK SLKEQK KLND LCFLK RLLQE IKTCWNKILM GTKEHHHHHH H
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)

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Purity	> 90% by SDS - PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name	IL7 interleukin 7 [Homo sapiens]
Official Symbol	IL7
Synonyms	IL7; interleukin 7; interleukin-7; IL 7; IL-7;
Gene ID	3574
mRNA Refseq	NM_000880
Protein Refseq	NP_000871
MIM	146660
UniProt ID	P13232
Chromosome Location	8q12-q13
Pathway	Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Hematopoietic cell lineage, organism-specific

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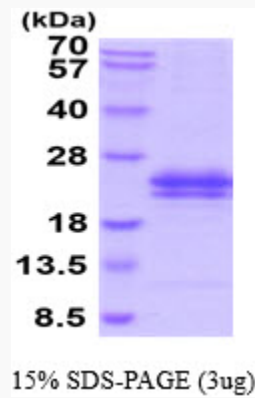
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biosystem; Hematopoietic cell lineage, conserved biosystem; Immune System, organism-specific biosystem; Interleukin-7 signaling, organism-specific biosystem;

Function

cytokine activity; cytokine receptor binding; growth factor activity; growth factor activity; interleukin-7 receptor binding; protein binding;



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