

Recombinant Human IL7

Cat. No. IL7-572H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL7 mature form (Asp26-His177), fused with a N-terminal Met, was produced in E. coli.
Species	Human
Source	E.coli
ProteinLength	26-177 a.a.
Predicted N Terminal	Met
Form	Lyophilized from sterile 25mM NaH ₂ PO ₄ , 400mM NaCl, pH 6.8. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
Molecular Mass	The recombinant human IL7 consists of 153 amino acids and predicts a molecular mass of 17.5 KDa. It migrates as an approximately 19 KDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	>90 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be

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aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution. Centrifuge the vial at 4°C before opening to recover the entire contents.

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

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Function

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

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