

Active Recombinant Human IL7 Protein (Asp26-His177), C-His tagged, Animal-free, Carrier-free

Cat. No. IL7-171H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL7 Protein (Asp26-His177) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Asp26-His177
Description	Interleukin-7 (IL-7) is a multipotent cytokine belonged to one of the members of IL-2 superfamily. IL-7 has diverse effects on the hematopoietic and immune regulations. IL-7 is a trophic factor that is necessary for both B cell and T cell proliferation and development. In addition, it presents potential antitumor effects in tumors such as glioma, melanoma, lymphoma, leukemia, prostate cancer, and glioblastoma.
Form	Lyophilized
Bio-activity	Measured by its ability to induce PHA-activated human PBMCs proliferation. The ED50 for this effect is < 0.8 ng/mL. The specific activity of recombinant human IL-7 is > 1 × 10 ⁸ units/mg.
Molecular Mass	The protein has a calculated MW of 18.3 kDa. The protein migrates as 19 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>95% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	IL7 interleukin 7 [Homo sapiens (human)]
Official Symbol	IL7
Synonyms	IL7; interleukin 7; interleukin-7; IL 7; IL-7;
Gene ID	3574
mRNA Refseq	NM_000880
Protein Refseq	NP_000871

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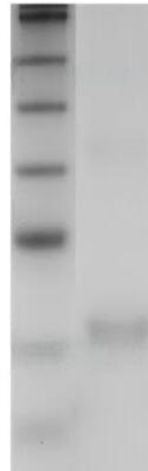


MIM 146660

UniProt ID P13232

SDS-PAGE analysis
of recombinant
human IL-7.

kDa M
75
60
45
35
25
15
10



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