

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

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

SPECIFICATION

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|-------------------------|---|
| 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

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|------------------------|--|
| 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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