

Active Recombinant Human IL7 protein

Cat. No. IL7-64H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL7 protein(P13232)(26-177 aa) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	26-177 aa
Form	Lyophilized from a 0.2 µ filtered concentrated solution in 20 mM PB, 150 mM NaCl, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. rHuIL-7 stimulates proliferation of PHA-activated human peripheral blood mononuclear cell (PBMC). The specific activity of Recombinant Human IL-7 is > 1.0 × 10 ⁸ Units/mg, which is calibrated against human IL-7 WHO Standard (NIBSC code: 90/530).
Molecular Mass	Approximately 17.4 kDa, a single non-glycosylated polypeptide chain containing 152 amino acids.
AASequence	DCDIEGKDGK QYESVLMVSI DQLLDSTMKEI GSNCLNNEFN FFKRHICDAN KEGMFLFRAA RKLQRFLKMN STGDFDLHLL KVSEGTTILL NCTGQVKGRK PAALGEAQPT KSLEENKSLK EQKKLNDLCF LKRLLEIQT CWNKILMGTK EH
Endotoxin	Less than 1 EU/g of rHuIL-7 as determined by LAL method.

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Purity	> 97% by SDS-PAGE and HPLC analyses.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

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

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