

Active Recombinant Human IL7 protein, His-tagged

Cat. No. IL7-1056H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL7 protein(Asp26-His177), fused with C-terminal His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	26-177 aa
Form	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Bio-activity	1. Measured by its binding ability in a functional ELISA. Immobilized Human IL7 at 2 µg/mL (100 µL/well) can bind human IL7R with a linear range of 0.97 -159.1 ng/mL. 2. Measured in a cell proliferation assay using IL-2-activated mouse spleen cell. The ED50 for this effect is 0.1-0.4 ng/mL, corresponding to a specific activity of $2.5 \times 10^6 \sim 1 \times 10^7$ units/mg. 3. Measured in a cell proliferation assay using murine 2E8 cells. The ED50 for this effect is 0.78-3.1ng/mL, corresponding to a specific activity of $3.23 \times 10^5 \sim 1.28 \times 10^6$ units/mg.
Molecular Mass	18.23 kDa
Endotoxin	< 0.1 EU/µg of the protein by LAL method.
Purity	≥ 90 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

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Storage Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Reconstitution Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

GENE INFORMATION

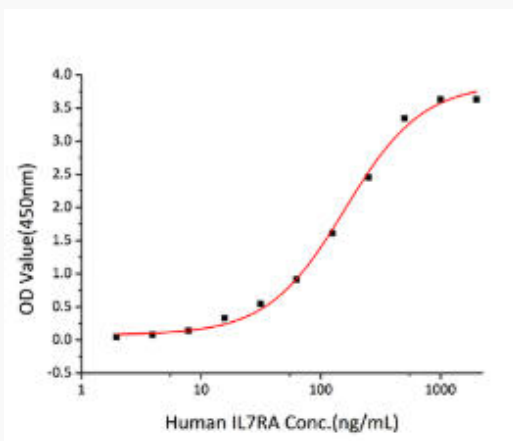
Gene Name	IL7 interleukin 7 [Homo sapiens]
Official Symbol	IL7
Synonyms	IL7; interleukin 7; interleukin-7; IL 7; IL-7;
Gene ID	3574
mRNA Refseq	NM_000880
Protein Refseq	NP_000871
MIM	146660
UniProt ID	P13232

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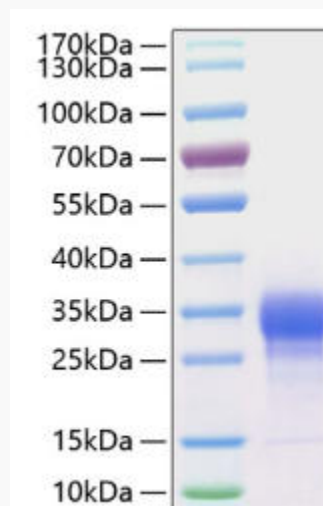
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Activity



SDS-PAGE



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