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## Human IL-7 Recombinant Protein

Catalog Number: 14-8079

Also Known As: Interleukin-7, IL7

RUO: For Research Use Only

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### Product Information

Contents: Human IL-7 Recombinant Protein

 Catalog Number: 14-8079

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a sterile environment

Source: E. coli expressed amino acids asp 26-his 177 of mature human IL-7 (accession # NM\_000880).


Molecular Mass: The methionylated polypeptide has a predicted molecular mass of 17,518. The DTT reduced protein migrates as a 18 kDa polypeptide. The nonreduced protein migrates as a 16 kDa protein on non-reducing SDS-PAGE.

Purity: Greater than 98%, as determined by SDS-PAGE


Endotoxin Level: Less than 0.01 ng/ug cytokine as determined by the LAL assay.

Bioactivity: Measured by dose-dependent proliferation of PHA-activated human PBMCs. The ED<sub>50</sub> is typically 2.0 ng/ml, corresponding to a specific activity of approximately 5x10<sup>5</sup> Units/mg.

Formulation: Sterile liquid: 20mM Tris, 50mM NaCl, pH 7.8, 1.0% BSA. 0.22 µm filtered.

 Temperature Limitation: Store at less than or equal to -70°C.

 Batch Code: Refer to Vial

 Use By: Refer to Vial

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### Description

Human IL-7, also called lymphopoietin 1 (LP-1), a pre-B cell growth factor, is a ~28 kDa factor produced by bone marrow and thymic stromal cell and spleen cells. IL-7 is a stromal cell-derived growth factor for progenitor B cells and T cells. The main population in the thymus responsive to IL-7 is CD4<sup>+</sup>CD8<sup>-</sup>. It also stimulates proliferation and differentiation of mature T cells and NK cells.

### Applications Reported

Recombinant human IL-7 is biologically active.

### Applications Tested

This recombinant human IL-7 has been tested in bioassay of dose-dependent proliferation of PHA-activated human PBMCs, yielding an ED<sub>50</sub> of approximately 2.0 ng/ml, corresponding to a specific activity of approximately 5x10<sup>5</sup> Units/mg.

### Related Products

14-8071 Mouse IL-7 Recombinant Protein

16-1271 Anti-Mouse CD127 Functional Grade Purified (A7R34)

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