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## Mouse IL-7 Recombinant Protein Carrier-Free

Catalog Number: 34-8071

Also Known As: Interleukin-7, IL7

RUO: For Research Use Only

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### Product Information

Contents: Mouse IL-7 Recombinant Protein Carrier-Free

 Catalog Number: 34-8071

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

Source: E. coli expressed amino acids glu 26-ile 154 of mature mouse IL-7 (accession # NM\_008371).

Molecular Mass: The methionylated polypeptide has a predicted molecular mass of 15,028. The DTT reduced protein migrates as a 15 kDa polypeptide. The non-reduced protein has slightly higher mobility 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: The ED50 of this protein, as measured by 2E8 cell proliferation assay, is less than or equal to 1.6 ng/mL. This corresponds to a specific activity of greater than or equal to  $6.3 \times 10^5$  Units/mg.

Formulation: Sterile liquid; 35% (v/v) acetonitrile, 0.1% trifluoroacetic acid (v/v). 0.22  $\mu$ m 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

Mouse IL-7 (also called Lymphopoietin 1, LP-1), a pre-B cell growth factor, is an ~25 kDa factor produced by bone marrow and thymic stromal cells, 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 mouse IL-7 is biologically active.

### Applications Tested

The ED50 of this protein, as measured by 2E8 cell proliferation assay, is less than or equal to 1.6 ng/mL. This corresponds to a specific activity of greater than or equal to  $6.3 \times 10^5$  Units/mg.

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