
Mouse IL-7 Recombinant Protein

Catalog Number: 14-8071

Also Known As: Interleukin-7, IL7

RUO: For Research Use Only

Product Information

Contents: Mouse IL-7 Recombinant Protein

REF **Catalog Number:** 14-8071

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a 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 x 10⁵ Units/mg.

Formulation: Sterile liquid; phosphate buffered saline, pH 7.2, 1.0% BSA. 0.22 µm filtered.

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

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

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⁺CD8⁻. 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 x 10⁵ Units/mg.

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