Il7
Recombinant Mouse Interleukin-7

Catalog No.	CRI131A	**Quantity:**	2 µg
	CRI131B		10 µg
	CRI131C		1.0 mg

Alternate Names: IL-7, Lymphopoietin 1 (LP-1), pre-B cell Factor

Description: Interleukin-7 (IL-7) is encoded by the IL7 gene and secreted by stromal cells in the red marrow and thymus. IL-7 binds to the IL-7 receptor, a heterodimer consisting of IL-7 receptor alpha and IL-2 receptor gamma chain. IL-7 stimulates the differentiation of hematopoietic stem cells into lymphoid progenitor cells. It also stimulates proliferation of B cells, T cells and NK cells. Mouse IL-7 has approximately 65% and 88% amino acid sequence identity with human and rat IL-7 and both proteins exhibit cross-species activity. IL-7 as an immunotherapy agent has been examined in many human clinical trials for various malignancies and during HIV infection.

UniProt ID: P10168

Gene ID: 16196

Source: *E. coli*

Molecular Weight: 15 kDa (130 aa) monomer

Formulation: Lyophilized from a sterile filtered solution in 10 mM acetic acid

Purity: ≥ 95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤ 1 EU/µg as determined by kinetic LAL analysis

Biological Activity: ≤ 1 ng/ml determined by dose-dependent 2E8 cell proliferation.

Specific Activity: ≥ 1.0×10^6 IU/mg.

Amino Acid Sequence: MECHIKDKEG KAYESVLMIS IDELDKMTGT DSNCPNNEPN FFRKHVCDDT KEAAFLNRAA RKLKQFLKMN ISEEFNVHLL TVSQGTQTLV NCTSKEEKNV KEQKKNDACF LKRLLREIKT CWNKILKGSI

Reconstitution: **Centrifuge vial prior to opening.** Add sterile **10 mM acetic acid** to a concentration of 0.1 mg/ml. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. **DO NOT VORTEX.** Allow several minutes for complete reconstitution.

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.
Avoid repeated freeze-thaw cycles.

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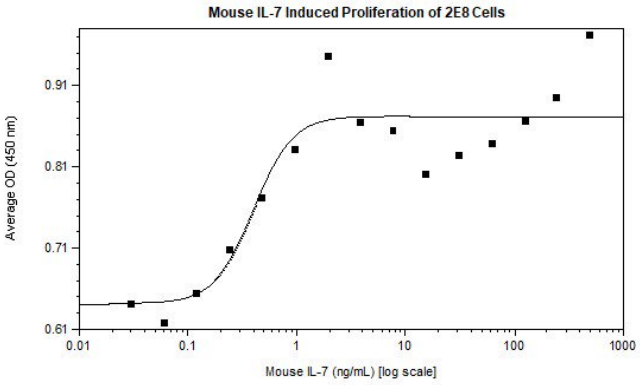

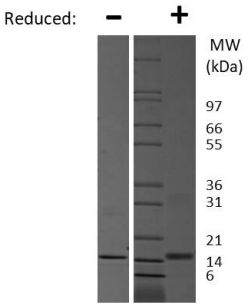

Mouse IL-7 Gel

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse IL-7 is predicted to have a MW of 15 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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