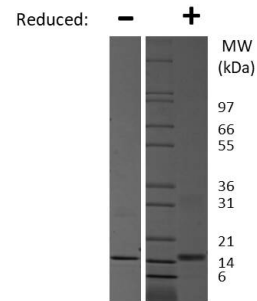
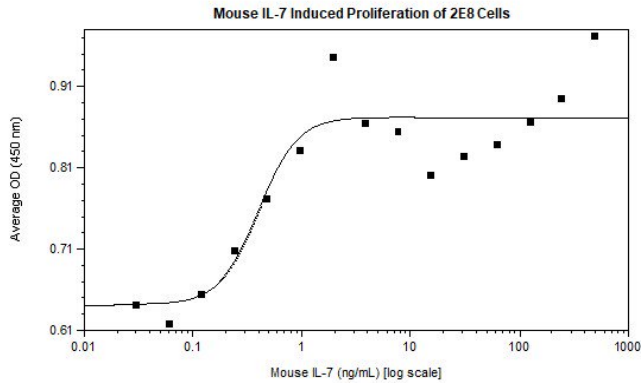


II7

Recombinant Mouse Interleukin-7, Animal Free

Catalog No.	CRI131A-AF CRI131B-AF CRI131C-AF	Quantity:	2 µg 10 µg 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.		
Gene ID:	16196		
UniProt ID:	P10168		
Source:	<i>E. coli</i> Manufactured without animal-derived reagents in an Animal Free facility.		
Molecular Weight:	15 kDa		
Formulation:	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM acetic acid		
Purity:	≥ 95% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤ 1EU/µg as determined by kinetic LAL analysis		
Biological Activity:	≤ 1 ng/ml determined by dose-dependent induction of 2E8 cell proliferation.		
Specific Activity:	≥ 5.0 x 10 ⁶ IU/mg.		
Amino Acid Sequence:	MECHIKDKEG KAYESVLMIS IDELDKMTGT DSNCPNNEPN FFRKHVCDDT KEAAFLNRAA RKLKQFLKMN ISEEFNVHLL TVSQGTQTLV NCTSKEEKNV KEQKKNDACF LKRLLEIKT CWNKILKGS		
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.		





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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